



1979-80

Rush
University

Presbyterian-
St. Luke's
Hospital

Graduate
Medical Education
Rush-Presbyterian-
St. Luke's
Medical Center

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1979-80

Rush
University

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Graduate Medical Education Rush-Presbyterian- St. Luke's Medical Center

Office of Graduate Medical Education
Rush-Presbyterian-St. Luke's
Medical Center
600 South Paulina Street
Chicago, Illinois 60612

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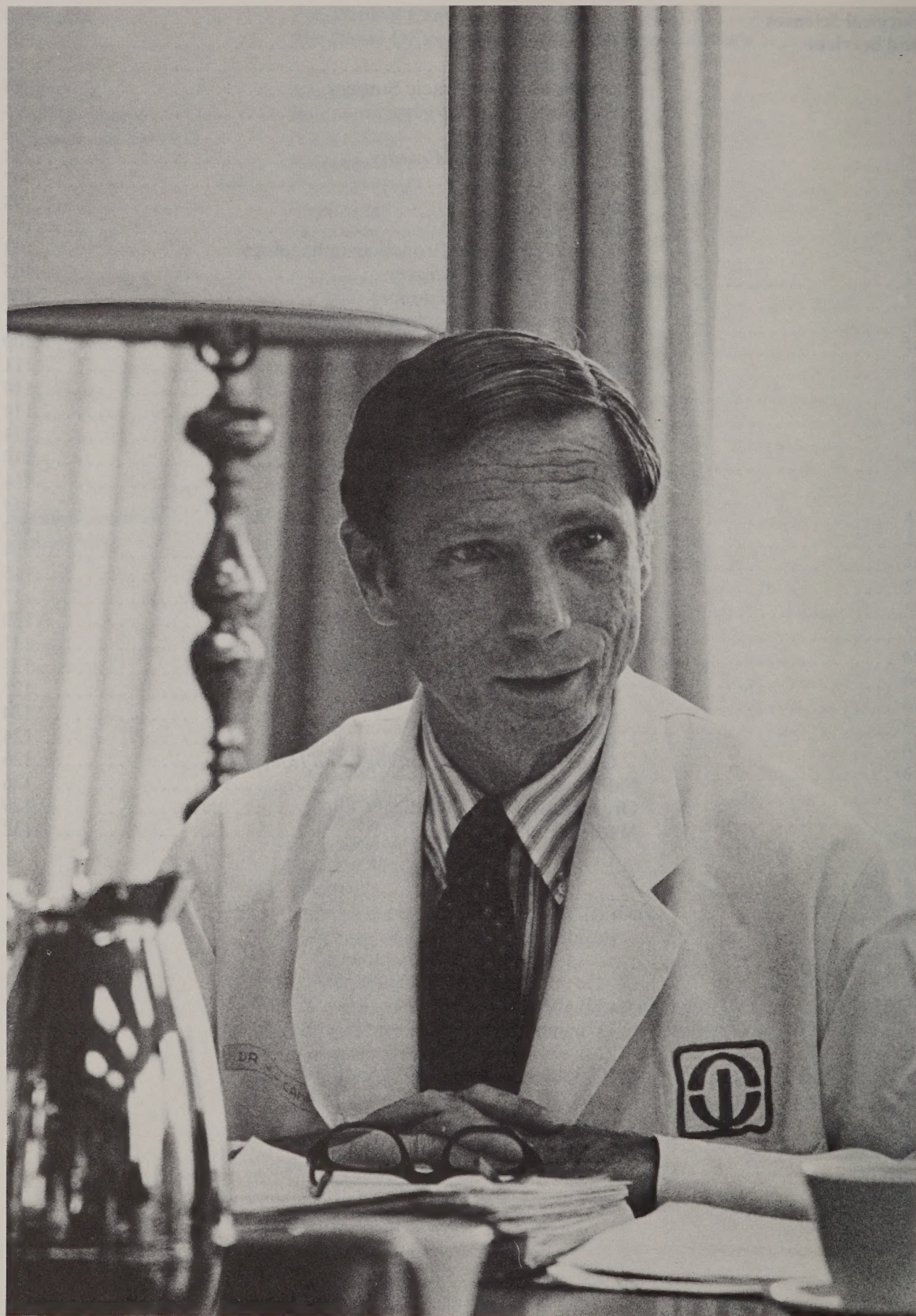
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The concept of an academic health center has gained recognition throughout the United States as an important organizing principle for patient services, medical education, and scientific inquiry. At Rush-Presbyterian-St. Luke's Medical Center, our approach in the development of such a center is based on a commitment for orderly and balanced growth among all the components—patient care, education, and research.

The graduate medical education program arises out of the strengths of these components. With all of them, it finds its purpose, justification, and direction in the priority we place on patient care. The emphasis comes from the long tradition of the original individual institutions, potentiated by their most recent combination a decade ago. We believe with Francis Weld Peabody that "the secret of care of the patient is in caring for the patient," and we agree that "without scientific knowledge a compassionate wish to serve mankind's health is meaningless, but scientific knowledge without wisdom and compassion is a frozen storehouse."

At Rush-Presbyterian-St. Luke's, the stature of the medical staff and faculties expresses our standards of what we like to call "physician-ship." These are the qualities by which humane and principled men and women put knowledge and understanding, science and skills to use. To harbor ambitions to produce good doctors carries us deep into the enigma of character formation. Our observation tells us that our house staff has had more than a disciplined experience in education. Whatever we do in education, it is clear that the power of example is one of the surest forces for elevating the quality of perception and performance to the standards we set, assay, and seek anew.

As house officers, you will develop confidence in your knowledge of health and disease and in your strengths in special areas of concern, yet you must bring to a new level of appreciation the sense that each patient is a person whose wholeness transcends the immediate physical problem. Your responsibility is to grow. Our responsibility here is to nurture your growth in every way that we can.

James A. Campbell, M.D.
President

Training at Rush is rewarding because of the special relationship residents enjoy with Rush Medical College faculty, attending staff and medical students. The focus of this relationship is excellence—excellence in patient care, excellence in the educational process, and excellence in the scholarly pursuit of medical knowledge.

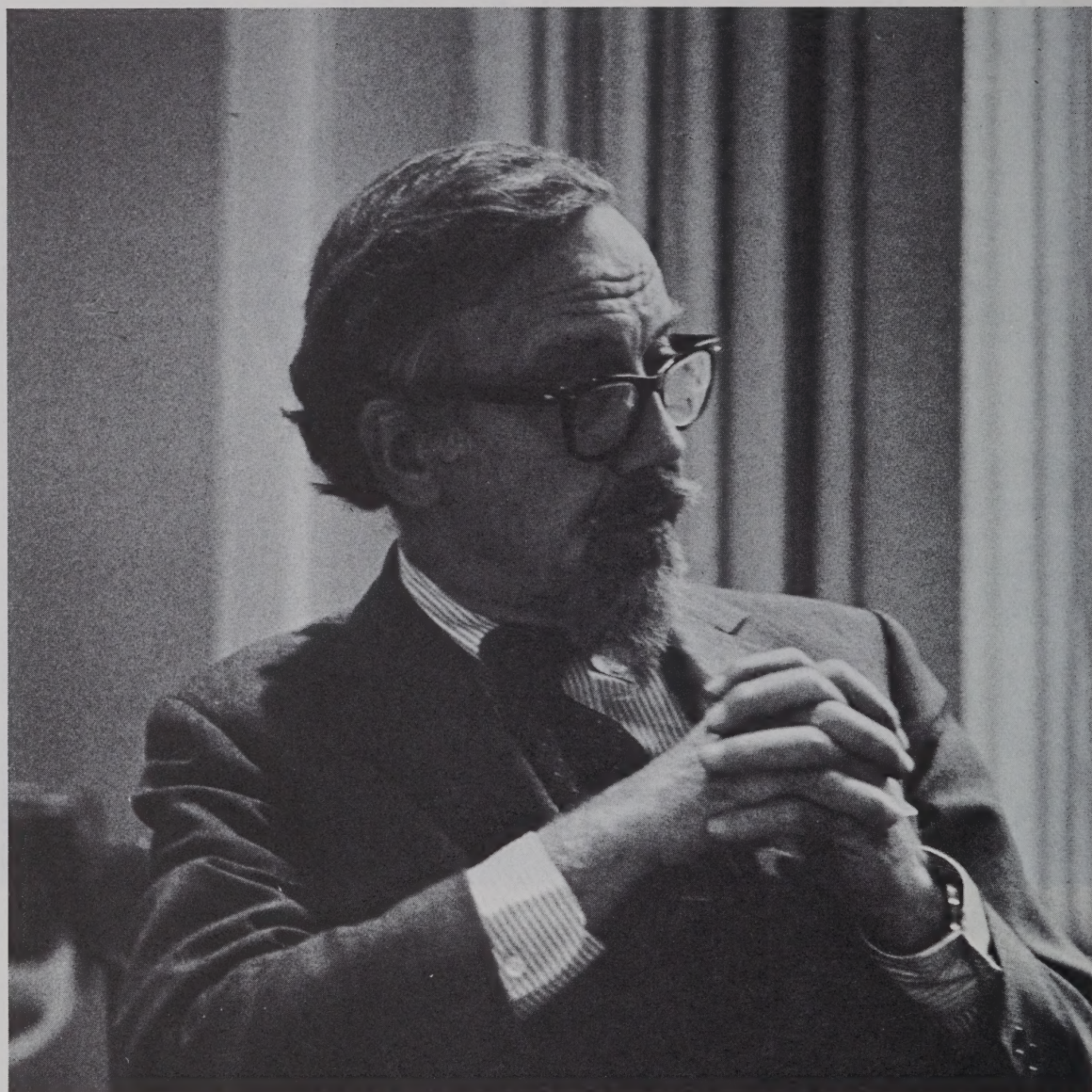
Residents are students as well as teachers, practitioners, and scholars. The expanding and well-equipped facilities at Rush, and the rich mix of patient populations provide a wide spectrum of opportunities to develop vital skills and knowledge.

Society has called for a response from the health care industry. Rush-Presbyterian-St. Luke's Medical Center has responded to this call by establishing, on an institutional level, an identity and a direction with clear definition. The Rush University System for Health is our prototype for serving the total health care needs for a defined population of 1.5 million people. This system extends broadly both geographically and in types of health care settings. It is managed with flexibility to be responsive to the needs of the populations we serve.

Synergy makes this institution exciting—we see ourselves as leaders in the private sector. You are invited to join us.

Robert S. Blacklow, M.D.
*Vice President, Medical Affairs, and
Dean, Rush Medical College*





The goal of our graduate medical education program is to provide the new physician an environment in which a high level of professional competence can be developed. While the goal is fixed, there must be a high degree of flexibility involved in the program that is the path to that goal.

At Rush-Presbyterian-St. Luke's, we recognize the inseparable relationship between first-rate practice and learning. The good physician must be expert in the acquisition as well as the application of knowledge and skills. We also recognize that there have been major changes in medical education on the one hand and in the expectations of those who have a right to sound health on the other. Education and training for a career of professional competence are designed to take these changes into account, and to respond to other significant changes as they occur. The departments establish the details of their training programs according to the requirements of the various specialties. The Office of Graduate Medical Education coordinates the programs in light of the overall goals, and maintains a continuing process of evaluation and reevaluation. It also provides centralized services to residents and fellows for those details common to all, such as stipends, housing, and insurance.

Graduate medical education at Rush-Presbyterian-St. Luke's will continue to be responsive to the needs of new physicians striving to exercise their growing abilities with knowledge and compassion. We will appreciate your insights into a process that must constantly adapt if we are to reach a goal that must never change—the education of highly competent and effective physicians.

John S. Graettinger, M. D.
Associate Dean, Graduate Medical Education



The
Medical
Center

Introduction

Rush-Presbyterian-St. Luke’s Medical Center offers training in 20 clinical departments and seven basic science departments to some 320 residents, trainees, and fellows each year.

Presbyterian-St. Luke’s Hospital provides the major clinical base for graduate medical education; other hospitals affiliated with Rush University offer additional and supplemental opportunities. The 575 voluntary physicians on the attending staff of Presbyterian-St. Luke’s Hospital are also faculty members of Rush University, as are many of the attending physicians and surgeons at Medical Center affiliates; the faculty of the university includes some 1,300 clinicians and scientists. The Professional Building on the Medical Center campus provides private office space for members of the attending staff; postgraduate training may include opportunities to follow patients there.

In order to offer a broader range of clinical experiences, the Medical Center also draws upon a network of resources that includes contractual affiliations with nine hospitals and health centers in northern Illinois, and cooperative educational programs with 14 colleges and universities throughout the Midwest. Many of the Medical Center graduate programs offer rotation through one or more affiliated hospitals that are located in rural and semirural areas, suburbs, and a variety of urban situations. (Residents in family practice and other programs based at affiliated hospitals also rotate through Presbyterian-St. Luke’s.)

Presbyterian-St. Luke’s Hospital itself is both a major referral center and a community resource; patients come from all parts of the metropolitan area and the nation, and from all economic and social strata.

History

| | |
|---|------|
| The College of Health Sciences | 1975 |
| Rush University | 1972 |
| The College of Nursing | 1972 |
| Rush-Presbyterian-St. Luke’s Medical Center | 1969 |
| Presbyterian-St. Luke’s Hospital | 1956 |
| Presbyterian Hospital | 1883 |
| St. Luke’s Hospital | 1864 |
| Central Free Dispensary | 1871 |
| Rush Medical College | 1837 |

Programs in Graduate Medical Education

The programs offered in graduate medical education and the minimum requirements for specialty board eligibility are outlined in the accompanying diagram. In the subspecialties that require a year or more in a broad specialty as a prerequisite, programs for the entire sequence may be planned through the departments in the offices of medical or of surgical sciences and services. All G-1 positions are offered through the National Resident Matching Program (NRMP). Family practice residencies are offered as separate programs in four of the Rush-affiliated hospitals. Separate programs in various other specialties are also offered at the Mount Sinai Hospital Medical Center and at Christ and West Suburban hospitals of the Rush network, under the supervision of Rush faculty members.

| G1 | G2 | G3 | G4 | G5 | G6 | G7 |
|----|------------------------------|-----------------------|--------------------------|-----------------|--------------------|----|
| | Family Practice* | | | | | |
| | | | Peds. Specialties | | | |
| | Pediatrics | | Allergy-Immun. | | | |
| | | | Med. Specialties | | | |
| | Internal Medicine | | | | | |
| | | Dermatology | | | | |
| | | Neurology | | | | |
| | Psychiatry | | | | | |
| | Pathology | | | Neuro P. | | |
| | Obstetrics-Gynecology | | | | | |
| | Anesthesiology | | | | | |
| | General Surgery | | | | Plastic | |
| | | | | | CV-Thoracic | |
| | | Otolaryngology | | | | |
| | | Urology | | | | |
| | Neurosurgery | | | | | |
| | Orthopedics | | | | | |
| | Ophthalmology | | | | | |
| | Diagnostic Radiology | | | | | |
| | Therapeutic Radiology | | | | | |

**At Clinical Affiliates (Christ, Swedish Covenant, West Suburban, and Community Memorial General Hospitals)*

**NRMP Program Numbers for the First Year
of Graduate Medical Education**

| | Rush Clinical Network Hospitals | | | | | |
|-----------------------|---------------------------------|----------------|-----------------------|---------|---------------------|------------------|
| | Presbyterian St. Luke's | Mount Sinai | Community Memorial | Christ | Swedish Covenant | West Suburban |
| Family Practice | # | — | 303718 | 113118 | 115918 | 117318 |
| Internal Medicine | 114768 | 114468 | — | 113132* | — | — |
| Pediatrics | 114780 | 114480 | — | 113180 | — | — |
| Obstetrics/Gynecology | 114771 | 114471 | — | # | — | — |
| Psychiatry | 114776* | 114482 | — | — | — | — |
| | 114733* | | | | | |
| Surgery | 114784 | 114484 | — | — | — | — |
| Neurosurgery | 114792* | — | — | — | — | — |
| Ophthalmology | 114794* | — | — | — | — | — |
| Orthopedics | 114795* | # | — | # | — | — |
| Otolaryngology | 114796* | — | — | — | — | — |
| Urology | 114789* | — | — | — | — | — |
| Anesthesiology | 114777 | — | — | — | — | — |
| Pathology | 114775 | — | — | — | — | 117375 |
| Diagnostic Radiology | 114787 | 114487 | — | — | — | — |
| Therapeutic Radiology | 114799* | — | — | — | — | — |
| Flexible | — | 114420 | — | — | 115920 | 117320 |

* = Diversified Program

= Integrated Program

Note: Programs available at Network hospitals are subject to change. Consult the **NRMP Directory** to verify program availability.

Departments

The activities of the various basic science and clinical disciplines are carried out by the departments at Rush-Presbyterian-St. Luke's Medical Center. The departments are grouped into three offices: Biological and Behavioral Sciences and Services, Medical Sciences and Services, and Surgical Sciences and Services.

Each department is responsible for participation in the health care activities of the Medical Center and for educational programs for health professionals at the undergraduate, graduate, and continuing levels; each is expected to encourage and conduct research. In the following pages, the activities of each department are described.

The educational programs in the departments of the Office of Biological and Behavioral Sciences and Services are directed primarily to undergraduate medical and nursing students and to graduate students, but there are also programs for house officers. In the clinical departments, first-year graduate medical education programs are offered via the NRMP in the major clinical specialties; advanced programs, residencies, and fellowships are offered in all of the clinical specialties and subspecialties.

Facilities

Rush-Presbyterian-St. Luke's Medical Center is located in Chicago in the northeast corner of the 350-acre Medical Center District of the State of Illinois. It currently comprises 18 buildings, including Presbyterian-St. Luke's Hospital, the Marshall Field IV psychiatric outpatient building, research facilities, apartment buildings, and the Laurance Armour Day School for children of employees and students. The 192,000 square foot Academic Facility, completed in 1976, accommodates large class and laboratory activities, small group seminars, individual tutoring, and faculty offices. It also houses the Library of Rush University, which is the oldest medical library in the city of Chicago. The library houses approximately 85,000 volumes, subscribes to 1,500 periodicals, borrows documents and volumes through interlibrary loan, and processes Medline requests. The library also has an outstanding collection of 4,500 rare medical books available for research. The Academic Facility has direct internal access to the Professional Building and to other patient care and research facilities.

Neighboring institutions within the Medical Center district include the University of Illinois Medical Center, Hektoen Institute, Cook County Hospital and its Graduate School of Medicine and School of Nursing, the West Side Veterans Administration Hospital, the State of Illinois Public Health Laboratory, and the Illinois State Psychiatric Institute. Various Rush departments maintain vigorous cooperative programs with many of these institutions.

The Johnston R. Bowman Health Center for the Elderly

The Johnston R. Bowman Health Center for the Elderly provides short-term restorative care, comprehensive ambulatory services, residential apartments, and the clinical setting for professional training in gerontology and geriatrics.

The 176-bed Bowman Center is devoted entirely to care of the elderly and was specifically designed for hospital-level care of the aged patient. It offers a wide range of services to the elderly through its outpatient facility and through inpatient services for those admitted from the community, or transferred from other acute care facilities or from Presbyterian-St. Luke's Hospital. The primary goal of the program is restorative care and rehabilitation. The top two floors contain residential apartments for independent elderly.

Sheridan Road Pavilion

The Sheridan Road Pavilion is a 178-bed hospital on the north side of Chicago, offering internal medicine, surgery, and psychiatric services, including an alcohol rehabilitation service. The hospital operates as an integral part of the Medical Center, with the same policies, procedures, programs, and medical staff. Rush is the first academic medical center in the nation to augment its main medical complex with a "branch hospital."

House staff members of all three services are assigned on a rotation basis to the Sheridan Road Pavilion. Medical and nursing students are also regularly assigned for clinical experiences.

For certain unusual procedures, such as computerized tomography, patients are transported to Presbyterian-St. Luke's Hospital. This allows cost-effective use of expensive facilities.

Patient Care at Presbyterian-St. Luke's Hospital (*Fiscal year ended June 30, 1978*)

| | |
|---|---------|
| Bed capacity (excluding bassinets) | 862 |
| Total admissions (including newborns) | 27,681 |
| Total days care of patients (including nursing) | 278,279 |
| Average length of stay (adult and pediatric)-days | 10.1 |
| Occupancy (excluding nursery) | 87.2% |
| Acute care visits | 9,810 |
| Emergency Room visits | 24,566 |
| Operations performed | 14,686 |
| Blood transfusions | 23,116 |

Faculty and Staff

| | |
|----------------------------|-------|
| Rush Medical College | 1,500 |
| College of Health Sciences | 210 |
| College of Nursing | 149 |
| Attending physicians | 652 |
| Total employees | 6,145 |

Students

| | |
|-------------------------|-----|
| Medical students | 468 |
| Nursing students | 371 |
| Health science students | 66 |
| Residents and fellows | 318 |

Research

Opportunities are available for house officers to participate in master's and doctoral programs in conjunction with their graduate medical education. Approximately 5 percent of the current budget of the Medical Center is devoted to research, and the proportion is growing. The commitment has involved annual expenditures in the area of \$5.7 million, funded by private agencies, foundations, corporations, federal and state agencies, and individuals.

The structure of the Medical Center includes a number of interdisciplinary committees for patient care, in which physicians, surgeons, basic scientists, psychologists, and nurses develop integrated therapies for patients with diseases such as multiple sclerosis and rheumatoid arthritis. The interdisciplinary approach



CHARLES H. AND SCHWAB REHABILITATION



also informs the research areas, especially in the approaches to cancer, cardiovascular diseases, and orthopedics. House staff members are encouraged to take an active role in the continuing exchange of information and insight.

Research Projects

| | |
|-------------------------------|-------------|
| Research projects in progress | 716 |
| Research publications | 606 |
| Research awards, 1976-77 | \$7,331,282 |

The Rush University System for Health

The Rush University System for Health is a prototype developed to provide all levels of health care for 1.5 million people, to educate and train the health professionals required to repopulate the system, and to support basic and applied research that will enhance the health care of the future. Its traditions began with Rush Medical College, which graduated over 10,000 physicians from its founding in 1837 until it suspended activities in 1942. The graduates and the faculty of Rush played major roles in the establishment of the medical schools of both Northwestern University and the University of Chicago. In the late 19th century, at the urging of the Rush faculty, the Presbyterian Hospital was founded as the first voluntary hospital in the country built for the patients and students of a medical faculty and, in 1956, a merger was consummated with another major community-based hospital, St. Luke's, to form Presbyterian-St. Luke's Hospital. The merger established a broader and more efficient patient care base, permitted expansion of programs in graduate medical education, made possible a leading role in the education of undergraduate medical students from the neighboring state university, and the broadening of activities in research. In 1969, an incorporation joined the charters of the medical college and hospital into Rush-Presbyterian-St. Luke's Medical Center. The medical college admitted students in 1971 and was rapidly followed by the College of Nursing and the College of Health Sciences, which grant professional degrees to the doctor of science level, and by the graduate school, which accepted candidates for the Ph. D. degree in 1977. Concurrently, educational and clinical networks have been established by affiliation agreements.

Clinical Network

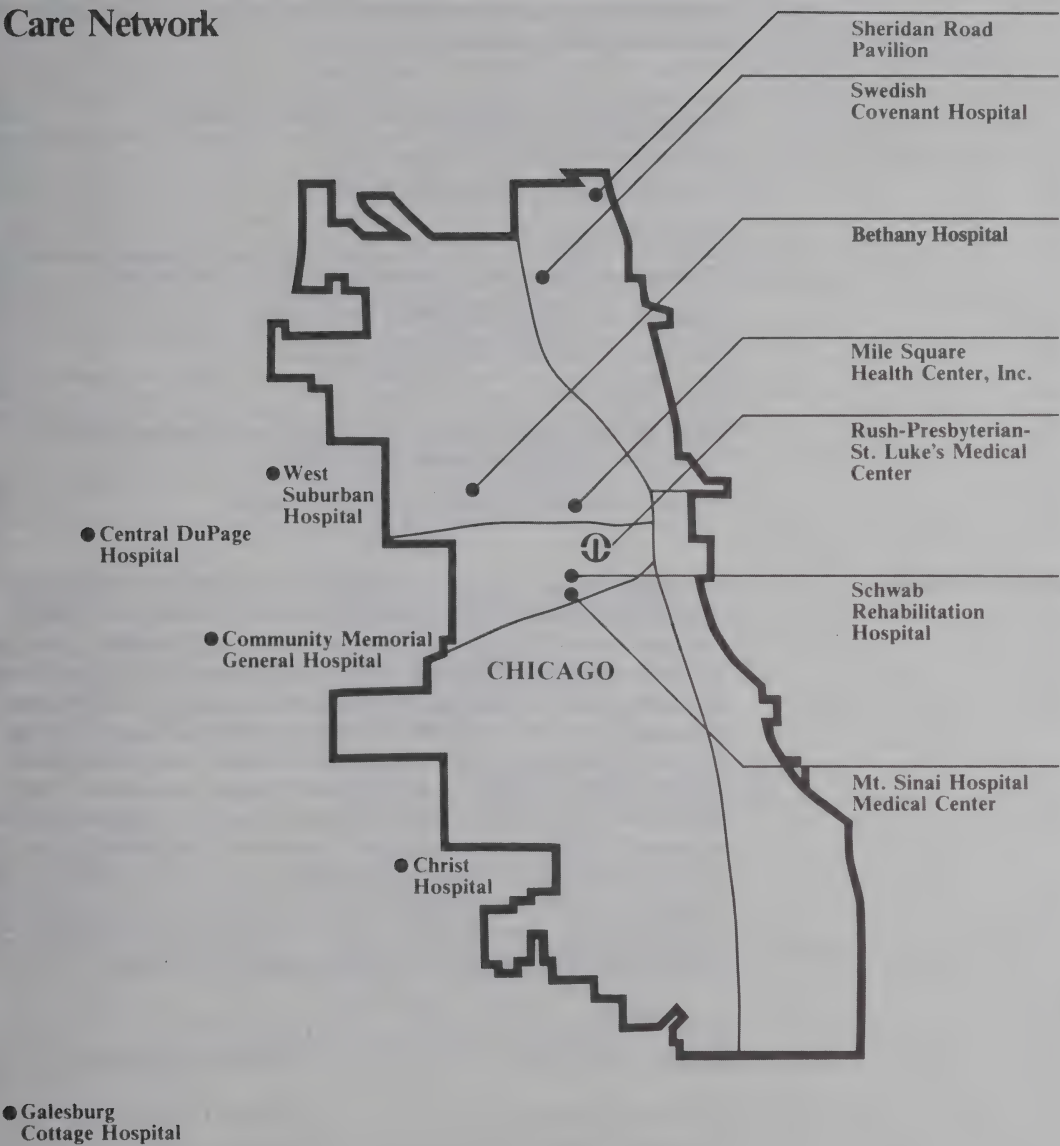
The clinical network consists of cooperative programs with nine health care institutions in different types of locations throughout the city and in suburban, semirural, and rural areas.

This network system, which provides health care for 1.5 million people in all types of environments, also has been designed to serve as the educational environment for the health professional students at Rush and provides an environment for research at all levels of health care.

Programs in undergraduate medical education have been developed in association with neighboring Mount Sinai Hospital Medical Center. In addition, joint programs in nursing and graduate medical education are being developed. Mount Sinai Hospital Medical Center provides outpatient and inpatient services to a broad metropolitan population.

Other clinical affiliates throughout northern Illinois also help to provide access for patients to all levels of care; they offer a broad base for clinical research and enhance the promulgation of new ideas

Care Network



as well as a significant exchange of educational opportunities. Staff members of affiliated hospitals share in teaching residents and medical students and participate in the continuing education programs of the Medical Center as faculty members of Rush. Residents rotating through affiliated hospitals experience the complete range of medical needs in their specialty, and gain insight into the different needs of different communities.

In addition to Presbyterian-St. Luke's Hospital, including its Sheridan Road Pavilion, the Johnston R. Bowman Health Center for the Elderly, and the other facilities at the Medical Center, the clinical network consists of:

| | |
|---|----------|
| Mount Sinai Hospital Medical Center, Chicago | 440 beds |
| Bethany Hospital, Chicago | 165 beds |
| Central DuPage Hospital, Winfield | 353 beds |
| Christ Hospital, Oak Lawn | 815 beds |
| Community Memorial General Hospital, La Grange | 276 beds |
| Galesburg Cottage Hospital, Galesburg | 265 beds |
| Swedish Covenant Hospital, Chicago | 321 beds |
| West Suburban Hospital, Oak Park | 369 beds |
| Mile Square Health Center, Chicago, an outpatient facility with over 30,000 patients registered | |
| Schwab Rehabilitation Hospital, Chicago | 67 beds |

Academic Network

The educational network consists of cooperative programs in 14 colleges and universities from Colorado to Tennessee. These colleges provide the health manpower needed to make the system work for the good of the patient on an economically sound base and in a setting that enhances the humanistic aspects of health care training. Qualified students admitted to these colleges with an interest in nursing or other health professions may begin their studies on the campus of an affiliated college and move to the Medical Center in their third or fourth year to complete professional training for the bachelor, master, or doctor of science degree. Special programs in two of the colleges, Knox and Grinnell, allow students admitted to Rush Medical College to combine their last year of college with their first year of medical training on the campus of the affiliated college. The educational affiliates are:

| | |
|--|---|
| Beloit College Beloit, Wisconsin | Fisk University Nashville, Tennessee |
| Carleton College Northfield, Minnesota | Grinnell College Grinnell, Iowa |
| Coe College Cedar Rapids, Iowa | Illinois Institute of Technology Chicago, Illinois |
| The Colorado College Colorado Springs, Colorado | Knox College Galesburg, Illinois |
| Cornell College Mount Vernon, Iowa | Lake Forest College Lake Forest, Illinois |

Lawrence University
Appleton, Wisconsin

Monmouth College
Monmouth, Illinois

Macalester College
St. Paul, Minnesota

Ripon College
Ripon, Wisconsin

Graduate Medical Education

The first-year programs in graduate medical education at Rush are shown in the accompanying table. Integrated programs have thus far been established in obstetrics and gynecology and in orthopedic surgery. Other integrated programs are being developed. In all types of programs the interrelationships and rotations between the program at Presbyterian-St. Luke's Hospital and the other hospitals are described in the various departmental descriptions that follow.

Full descriptions of the program based in the clinical affiliates are available from each of the hospitals or from the Office of Graduate Medical Education at the Medical Center.

For Further Information

Office of Graduate Medical Education
Rush-Presbyterian St. Luke's Medical Center
600 South Paulina Street
Chicago, Illinois 60612
312/942-5495

Office of Graduate Medical Education
Mount Sinai Hospital Medical Center
California at 15th Street
Chicago, Illinois 60608
312/542-3603

Director of Medical Education
Christ Hospital
4440 West 95th Street
Oak Lawn, Illinois 60453
312/425-8000

Director, Community Family Practice Center
Community Memorial General Hospital
5101 Willow Springs Road
LaGrange, Illinois 60525
312/352-7470

Director, Family Practice Residency Program
Swedish Covenant Hospital
5145 North California Avenue
Chicago, Illinois 60625
312/878-8200

Director of Medical Education
West Suburban Hospital
518 N. Austin Boulevard
Oak Park, Illinois 60302
312/383-6200



ST. LUKE'S HOSPITAL

The
House Officer
at Rush-
Presbyterian-
St. Luke's

The Agreement

The preamble to the 1978-79 contract developed by officers of the House Staff Association and members of the Medical Center management staff establishes their common understanding:

“The terms of this agreement recognize that it is in the best interests of the public and the Medical Center’s patients to assure the performance of the respective obligations of the parties, that provision of the highest possible quality of health care along with supervised graduate medical education is the first priority of the parties, that there is a need for flexibility within the working relationship of the parties, and that a fair and frank understanding of the rights and responsibilities of both parties is important at the onset of and throughout their relationship. . . .”

Each house officer is free to negotiate modifications in the basic contract, which has a one-year term.

In addition to terms for compensation and benefits, which will be discussed below, the basic contract also provides that:

- Appointment as a house officer carries with it an appointment to the faculty of Rush Medical College of Rush University.
- House officers will receive semi-annual written evaluations of performance from department chairmen and will in turn provide their own written evaluations of their program twice a year.
- There will be additional compensation when house officers are on in-hospital call more than every third night per month.
- An elected House Staff Executive Committee will meet regularly to discuss and recommend improvements in the graduate medical education program.
- There is a formal grievance procedure, with provision for hearing and appeal.

The contract recognizes that while the House Staff Association has acted on behalf of its members, the Association is not a formal bargaining agent within the meaning of the National Labor Relations Act. House officers are eligible to be members of the Association, but membership is not required.

Stipends and Benefits

House staff stipends for 1978-79 are as follows:

| | |
|-------------------------|-----------|
| First year post-M. D. | \$ 14,900 |
| Second year post-M. D. | 15,800 |
| Third year post-M. D. | 16,700 |
| Fourth year post-M. D. | 17,600 |
| Fifth year post-M. D. | 18,500 |
| Sixth year post-M. D. | 19,400 |
| Seventh year post-M. D. | 20,300 |
| Eighth year post-M. D. | 21,200 |

Other Benefits include:

- Individual and family outpatient coverage in Blue Shield or the Anchor Organization for Health Maintenance Plan, at nominal monthly rates.
- Individual and family coverage in Blue Cross at no charge.
- Professional liability insurance for Medical Center-related activities.
- Workmen’s compensation.
- Voluntary participation in Medical Center-approved tax sheltered annuity programs.
- Professional courtesy on drugs from the Medical Center pharmacy for house officers and their immediate families.
- Uniforms provided and maintained at no cost.
- Garage parking privileges.

- Housing as available in Medical Center apartments.
- Twenty one days vacation with pay.
- Maternity leave, Armed Services Reserve duty leave, and educational leaves as mutually agreed with department chairmen.
- Voluntary participation in the Medical Center's long-term disability insurance plan.
- Dental insurance coverage at no charge, available through the House Staff Association.
- Customary lodging and meal reimbursement while on call.
- Free life insurance.
- Free physical examinations.
- Assistance, where appropriate, in licensure, housing, placement, and application for individual specialty board requirements.
- Travel accident insurance coverage while on Medical Center business.
- Participation in Medical Center tuition reimbursement program.
- Bereavement pay.

The House Staff Association

The House Staff Association is a membership organization. Officers for 1978-79 are:

Benjamin B. LeCompte, III, M.D.
Neurosurgery, President

Larry J. Goodman, M.D.
Internal Medicine, Vice President

Howard L. Corwin, M.D.
Internal Medicine, Secretary

Martin G. Siglin, M.D.
Internal Medicine, Treasurer

William R. Kehoe, M.D.
Internal Medicine, Social Chairman

The executive committee meets monthly and there are periodic general assemblies. The Association provides house staff representatives for a number of Medical Center-wide faculty and medical staff committees, including Student Affairs, Admissions, Graduate Medical Education, the Hospital Committee on Research, the Hospital Utilization Review Committee, the Joint Accreditation Committee, and a variety of area committees such as Infectious Disease and Aseptic Control.

The House Staff Association Executive Committee voted in June, 1975, to join the National Physicians House Staff Association.

Housing

The Medical Center maintains a limited number of apartments on campus, and there are unfurnished apartments ranging from efficiency to two-bedroom within walking distance. In addition, the city and suburbs offer a diversity of housing and life styles. Because the Medical Center is located just slightly to the west of downtown Chicago, it is within comfortable commuting distance, half an hour or so, of all areas of the city and most adjacent suburbs. Apartments on campus are within 15 minutes of the cultural, shopping, and

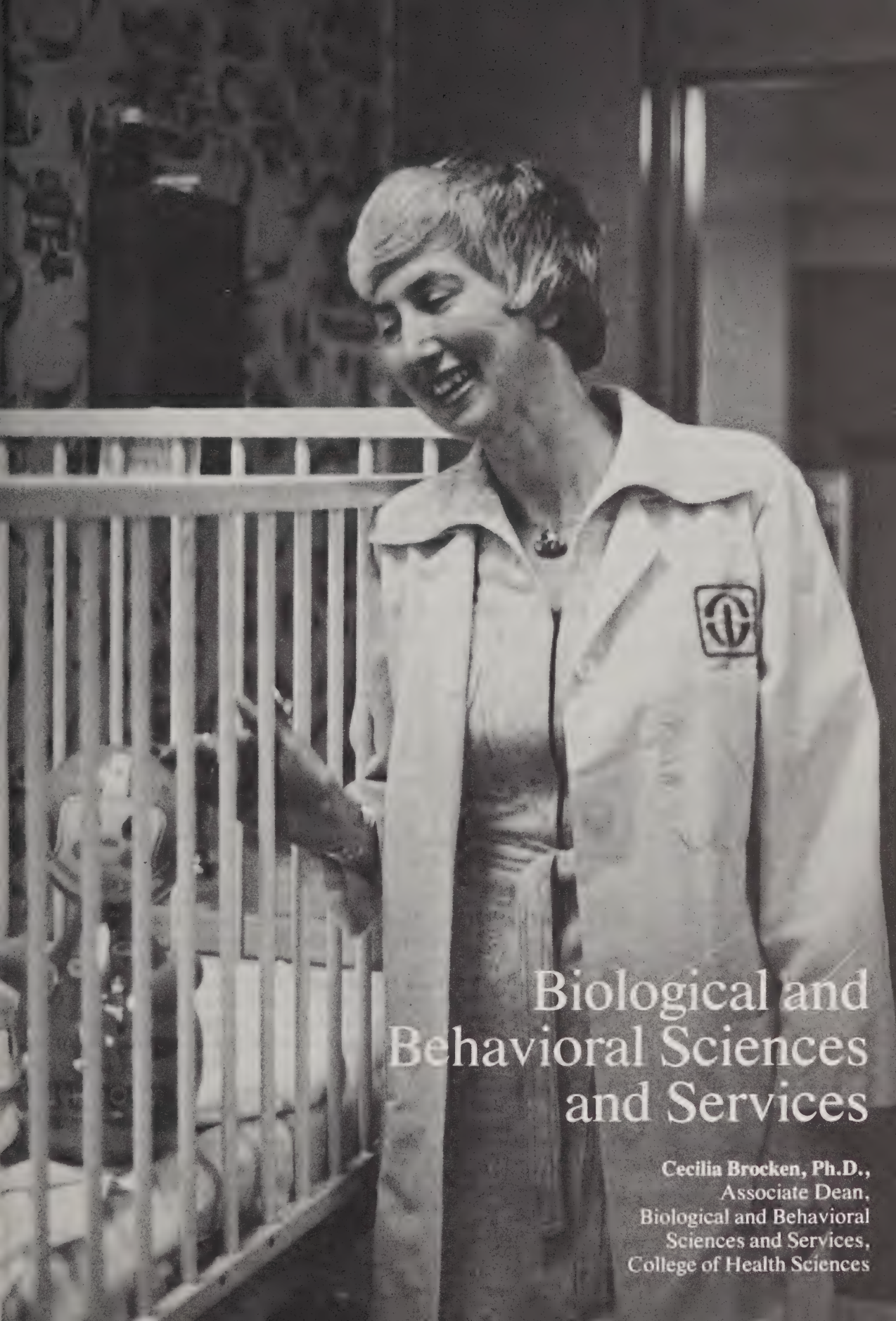
recreational activities of Chicago's Loop, the parks and beaches along Lake Michigan, and the intellectual, cultural, and social resources of the entire city.

For Further Information

The Office of Graduate Medical Education coordinates all the post-M.D. educational programs, maintaining a continuous process of evaluation and re-evaluation. The office also provides centralized service to house officers and trainees for questions regarding stipends, housing, insurance, and related matters.

Contact:

Keith R. Kretchmer
Office of Graduate Medical Education
Rush-Presbyterian-St. Luke's Medical Center
600 South Paulina Street
Chicago, Illinois 60612
312/942-5495



Biological and Behavioral Sciences and Services

Cecilia Brocken, Ph.D.,
Associate Dean,
Biological and Behavioral
Sciences and Services,
College of Health Sciences

Departments

The College of Health Sciences includes among its charges that of providing instruction in the basic sciences to students in all colleges of Rush University. The College of Health Sciences also provides a base of support for all learning experiences in the Medical Center.

The departments in the college's Office of Biological and Behavioral Sciences and Services have formal educational programs directed primarily to undergraduate medical and nursing students. However, some of these departments offer house officer programs and, of equal importance, they offer less formal opportunities for house staff to engage in and learn from the research and clinical laboratory activities that characterize this group of departments.

Therefore, this bulletin briefly describes ongoing investigational work in each of these departments to illustrate the research base available to house staff who wish to augment their clinical education. Not described in this bulletin are the Ph. D. programs in basic sciences offered through the graduate divisions of the College of Health Sciences. However, graduate division courses may be available to house staff after appropriate arrangement.

Department of Anatomy

Schmidt, Anthony J., Ph.D., Chairman

Colgan, James A., B.S., Ph.D., Assistant Professor, CHS
Dinsmore, Charles E., A.B., Ph.D., Assistant Professor, CHS
Durica, Thomas E., B.S., Ph.D., Assistant Professor, CHS
Galante, Jorge O., B.A., M.D., Professor, CHS, RMC (also
Orthopedic Surgery)

Hughes, W. Frank, A.B., M.S., Ph.D., Assistant Professor, CHS
and RMC

Hovde, Christian A., A.B., M.A., Ph.D., D.D., Assistant
Professor, CHS and RMC (also Psychiatry and Religion and
Health)

Khedroo, Lawrence G., A.B., D.D.S., M.D., Assistant Professor,
CHS and RMC (also General Surgery)

Maibenco, Helen C., B.S., M.S., Ph.D., Professor, CHS and
RMC

Martinek, John J., B.A., M.S., Ph.D., Associate Professor, CHS
(also Biology, Grinnell)

Schmidt, Anthony J., B.A., M.S., Ph.D., Professor, CHS and
RMC

Seale, Raymond U., B.S., A.M., Ph.D., Associate Professor, CHS
and RMC

The primary role of the anatomical sciences is to provide fundamental knowledge of the architecture of the human body and the concepts relevant to its function. All branches of medicine are served by effective personal experiences in the topographic exploration of man's functioning biological structure at both the gross and the microscopic levels. The education and research encompassed by the anatomical sciences include gross human anatomy, cellular and histologic anatomy, neuroanatomy, and embryology.

Key: RMC—*Rush Medical College*; CHS—*Rush College of Health Sciences*;
RCN—*Rush College of Nursing*; PSLH—*Presbyterian-St. Luke's Hospital*;
LOA—*Leave of Absence*; CMGH—*Community Memorial General
Hospital*; SCH—*Swedish Covenant Hospital*;
MSHMC—*Mount Sinai Hospital Medical Center*;
CH—*Christ Hospital*; GCH—*Galesburg Cottage Hospital*;
CDH—*Central DuPage Hospital*; WSH—*West Suburban Hospital*

Understanding and application of anatomy are of particular value to the surgical services. Accordingly, the Department of Anatomy collaborates with the Department of General Surgery to offer a preceptorial and laboratory program in surgical anatomy at specific intervals during the academic year. The department also offers a series of short-term modules of instruction in regional anatomy, primarily for residents in specialty programs.

Advanced courses are offered through the Graduate Division of Anatomical Sciences. These include approaches and methods in morphologic research, cell biology, growth and development, neurobiology, muscle biology, and preceptorials in advanced anatomy. The graduate program for the doctor of philosophy degree is geared to the exceptional professional student who may wish to pursue research and graduate studies in parallel with the medical curriculum.

Research and scholarship in the anatomical sciences is encouraged. Currently, interdisciplinary collaboration includes investigations into the biomechanics of human motion, general and specific myopathies, ophthalmopathies, and neuropathogenesis.

Members of the faculty of the department are currently investigating morphological changes in drug-induced dyskinesias; DNA synthesis during gestation; cell population renewal in oviduct and cervix; microbial endocarditis; cytological and molecular biology of wound healing; repair and regeneration in muscular, nervous, soft connective, skeletal, and other tissues; and teratology, particularly congenital anomalies of appendages.

Inquiries regarding additional programs and general information relative to the department's activities are welcome.

Department of Biochemistry

**Sky-Peck, Howard H., Ph.D., the John W. and Helen H. Watzek
Chairman**

Anderson, Kenning M., Ph. D., M. D., Associate Professor, CHS and RMC

Bezkorovainy, Anatoly, Ph. D., Professor, CHS and RMC and Senior Scientist, PSLH

Booyse, Francois M., Ph. D., Professor, CHS and RMC

Cohen, Maynard M., M. D., Ph. D., Professor, CHS and RMC and Senior Attending, PSLH (also Neurological Sciences)

Cole, Edmond R., Ph. D., Associate Professor, CHS and RMC and Associate Scientist, PSLH (also Hematology)

Demidow, Ludmilla, M.S., Instructor, CHS

Dubin, Alvin, M.S., Associate Professor, CHS and RMC

Harris, Leland, Ph. D., Professor, CHS and RMC

Harrison, William H., Ph. D., Professor, CHS and RMC (also Neurological Sciences)

Hayashi, James A., Ph. D., Professor, CHS and RMC, and Senior Scientist, PSLH

Hof, Hildegard I., Ph. D., Assistant Professor, CHS and RMC (also Psychiatry)

Hoskin, Francis C. G., Ph. D., Professor, CHS and RMC

Kachmar, John F., Ph. D., Associate Professor, CHS and RMC and Senior Scientist, PSLH

Kanamarlapudi, Narasimharao, Ph. D., Assistant Professor, RMC

Kornel, Ludwig, M. D., Ph. D., Professor, CHS and RMC and Senior Attending, PSLH (also Internal Medicine)

Kuettner, Klaus E., Ph. D., Professor, CHS and RMC (also Orthopedic Surgery)

Kumar, Sudhir, Ph. D., Assistant Professor, CHS and RMC
 Lobstein, Otto, Ph. D., Associate Professor, CHS
 Mattenheimer, Hermann G.W., M. D., Professor, CHS and RMC
 and Senior Scientist, PSLH
 Morley, Colin G. D., Ph. D., Assistant Professor, CHS and RMC
 Quarfoot, Alan J., Ph. D., Instructor, CHS
 Rafelson, Max E., Jr., Ph. D., Professor, CHS and RMC and
 Senior Scientist, PSLH
 Sky-Peck, Howard H., Ph. D., Professor, CHS and RMC and
 Senior Scientist, PSLH
 Uhlenhopp, Elliott L., Ph. D., Assistant Professor, CHS and RMC
 Weinstock, Albert, Ph. D., Assistant Professor, CHS and RMC
 (also Pathology)
 Whisler, Kenneth E., Ph. D., Assistant Professor, CHS and RMC
 and Assistant Scientist, PSLH
 Whisler, Walter W., M. D., Ph. D., Professor, CHS and RMC and
 Senior Attending, PSLH (also Neurological Surgery)

The Clinical Biochemistry Laboratory of the Department of Biochemistry is a modern, automated, computerized, high-volume medical service facility performing approximately 1,700,000 individual chemical tests per year. The objective of the clinical laboratory is to provide the most efficient, accurate, and extensive patient service obtainable. To accomplish this, the laboratory is continually studying the development of its automated and computerized facilities, quality control programs, methodology, and on-the-job training of personnel. It is also the objective of the members of the Clinical Biochemistry Laboratory that the facilities be used for the development of medical research and as a teaching tool for medical students, house staff, and graduate training and for a better understanding of human biology at the clinical level.

Members of the biochemistry department participate in basic science and medical education programs within the department and in conjunction with interdisciplinary programs. This participation is at many levels of education including undergraduate, predoctoral, and postdoctoral programs. The department participates in the teaching of basic and applied medical biochemistry to medical students of Rush Medical College during the three phases of the curriculum; the training of medical technologists in clinical chemistry in the medical technology program of the College of Health Sciences; and the education of graduate students leading to a doctor of philosophy degree in the Graduate School. The department also utilizes the facilities of the Clinical Biochemistry Laboratory and research laboratories in the training of medical, basic science, and postgraduate students. Since the clinical laboratory is one of the most active up-to-date laboratories in the country, it provides opportunity for the teaching of medicine and for the training of clinical chemists. In addition, the department participates in seminars, rounds, and multidisciplinary training programs.

The members of the Department of Biochemistry conduct a broad range of independent research activities that include collaborative research programs with investigators in other departments of Rush-Presbyterian-St. Luke's Medical Center, Mount Sinai Hospital Medical Center, University of Illinois, Northwestern University, The University of Chicago, Mayo Clinic and Research Foundation, Ames Company, and Hektoen Institute for Medical Research.



The diverse research interests of the faculty provide expertise in the areas of protein chemistry and functions, DNA metabolism and cell regulation, thrombosis, cartilage structure and metabolism, neurochemistry and the aging process, enzymology, hormone metabolism, cancer metabolism, and immunity.

Department of Immunology

Gewurz, Henry, M.D., the Thomas J. Coogan Sr. Chairman
 Baum, Linda L., B.A., Ph.D., Assistant Professor, CHS and Assistant Scientist, PSLH
 Claus, David R., B.S., M.S., Ph.D., Instructor, CHS and RMC
 Cunningham, Carolyn M., B.A., Ph.D., Assistant Professor, CHS and Assistant Scientist, PSLH
 DiCamelli, Ralph F., B.S., Ph.D., Instructor, CHS and RMC
 Edwards, Kathryn M., M.D., Instructor, CHS and Adjunct Scientist, PSLH
 Fiedel, Barry A., B.S., Ph.D., Assistant Professor, CHS and RMC and Assistant Scientist, PSLH
 Gewurz, Anita T., B.S., M.D., Assistant Professor, CHS and RMC and Assistant Scientist and Assistant Attending, PSLH (also Pediatrics)
 Gewurz, Henry, B.A., M.D., Professor, CHS and RMC and Senior Scientist and Senior Attending, PSLH (also Pediatrics and Internal Medicine)
 Golden, Harvey E., B.A., M.D., Associate Professor, CHS and RMC and Associate Attending, PSLH (also Internal Medicine)
 Hansen, Barbara, B.S., M.S., Ph.D., Assistant Professor, CHS and Assistant Scientist, PSLH
 James, Karen, B.S., M.S., Instructor, CHS and Adjunct Scientist, PSLH
 Jones, John V., B.A., M.D., Professor, CHS and RMC and Senior Attending, PSLH (also Internal Medicine)
 Lint, Thomas F., B.S., M.S., Ph.D., Assistant Professor, CHS and RMC and Assistant Scientist, PSLH
 Luskin, Allan, B.S., M.D., Assistant Professor, CHS and RMC and Assistant Attending, PSLH (also Internal Medicine)
 Merkel, Frederick K., B.S., M.D., Associate Professor, CHS and RMC and Associate Attending, PSLH (also Surgery and Internal Medicine)
 Osmand, Alexander P., B.S., Ph.D., Associate Professor, CHS and RMC and Associate Scientist, PSLH
 Potempa, Lawrence A., B.S., Ph.D., Instructor, CHS
 Sassetti, Richard J., B.S., M.D., Associate Professor, CHS and RMC and Associate Attending, PSLH (also Internal Medicine)
 Siegel, Joan N., B.S., Ph.D., Assistant Professor, CHS and RMC and Assistant Scientist, PSLH
 Suyehira, Lisbeth, B.S., Instructor, CHS and RMC and Adjunct Scientist, PSLH
 Zeitz, Howard, M.D., Assistant Professor, CHS and RMC and Assistant Attending, PSLH (also Internal Medicine)

The Department of Immunology provides immunochemical and serologic diagnostic procedures for the Medical Center and evaluates the immune competence and ongoing immune reactions in patients with a variety of diseases.

The primary investigative interests of the department are: (1) the clinical, developmental, and experimental biology of the effectors of the immune response, particularly the complement system; (2) the clinical relevance of the acute phase and its interrelationship with the immune response in health and disease, particularly in

neoplasia, blood vessel diseases, and allergic responses; and (3) the innovation and implementation of new approaches that utilize the immune response and immunoassays to aid in the rapid diagnosis and treatment of disease. One current project emphasizes the chemistry and immunobiology of the reactants of the "acute phase," particularly C-reactive protein (CRP), a non-antibody serum protein that shares several structural and functional features with the immunoglobulins. C-reactive protein has emerged as a potent modulator of immune and nonimmune inflammatory responses at the level of both the complement system and the T-lymphocyte; elaboration of the underlying mechanisms and a clinical pharmacology based on these interactions is under active exploration. Other current projects deal with immune mechanisms in arthritis, nephritis, and hepatitis.

Members of the department teach undergraduate and postgraduate courses in immunology and participate in hospital specialty rounds and seminar programs. Three-month elective clerkships are available for undergraduate students. Research and clinical fellowships for longer periods are arranged on an individual basis.

Department of Microbiology

Wolfe, Lauren G., D.V.M., Ph. D., Acting Chairman

Baram, Peter, B.S., M.S., Ph. D., Visiting Professor, CHS and RMC

Bergholz, Carolyn M., B.A., M.S., Ph. D., Assistant Professor, CHS

Casto, Bruce C., B.S., M.S., Sc. D., Professor, CHS

Falk, Lawrence A., B.A., M.A., Ph. D., Associate Professor, CHS and RMC and Associate Scientist, PSLH

Fisher, Lester E., D.V.M., Associate Professor, CHS and RMC

Gavitt, Frances, B.A., M.S., Ph. D., Visiting Assistant Professor, CHS and RMC

Goldin, Milton, B.S., M.S., Ph. D., Associate Professor, CHS and RMC, MSHMC

Goodheart, Clyde R., B.S., M.S., M. D., Professor, CHS and RMC

Hatch, George G., B.A., M.A., Ph. D., Visiting Assistant Professor, CHS

Jones, Irene M., B.A., Ph. D., Assistant Professor, CHS, GC

Kaplan, Raymond L., B.A., M.S., Ph. D., Assistant Professor, CHS and Assistant Scientist, PSLH

Landau, William, B.A., M.S., Ph. D., Associate Professor, CHS and RMC and Associate Scientist, PSLH

Levin, Stuart, B.M., M. D., Professor, RMC and Senior Scientist, PSLH (also Internal Medicine and Preventive Medicine)

Marczynska, Barbara, M.S., Ph. D., Assistant Professor, CHS and RMC

McQuay, Russell M., B.A., Ph. D., Associate Professor, CHS and RMC, MSHMC

Northrop, Robert L., B.S., D.V.M., Ph. D., Visiting Associate Professor, CHS and RMC

Ogden, James D., B.S., D.V.M., Assistant Professor, CHS and RMC

Perry, Eugene A., B.A., Ph. D., Assistant Professor, CHS, KC

Peterson, David A., B.S., M.S., Ph. D., Assistant Professor, CHS and RMC and Assistant Scientist, PSLH

Schuytema, Eunice H. C., B.S., M.S., Ph. D., Assistant Professor, CHS and RMC and Assistant Scientist, PSLH

Shaffer, James G., B.S., Sc.D., Professor, CHS and RMC,
MSHMC
Welsh, Thomas J., B.S., D.V.M., Ph.D., Assistant Professor,
CHS and RMC
Widra, Abe, B.A., M.S., Ph.D., Visiting Associate Professor,
CHS and RMC and Consulting Scientist, PSLH
Wolfe, Lauren G., D.V.M., M.S., Ph.D., Professor, CHS and
RMC

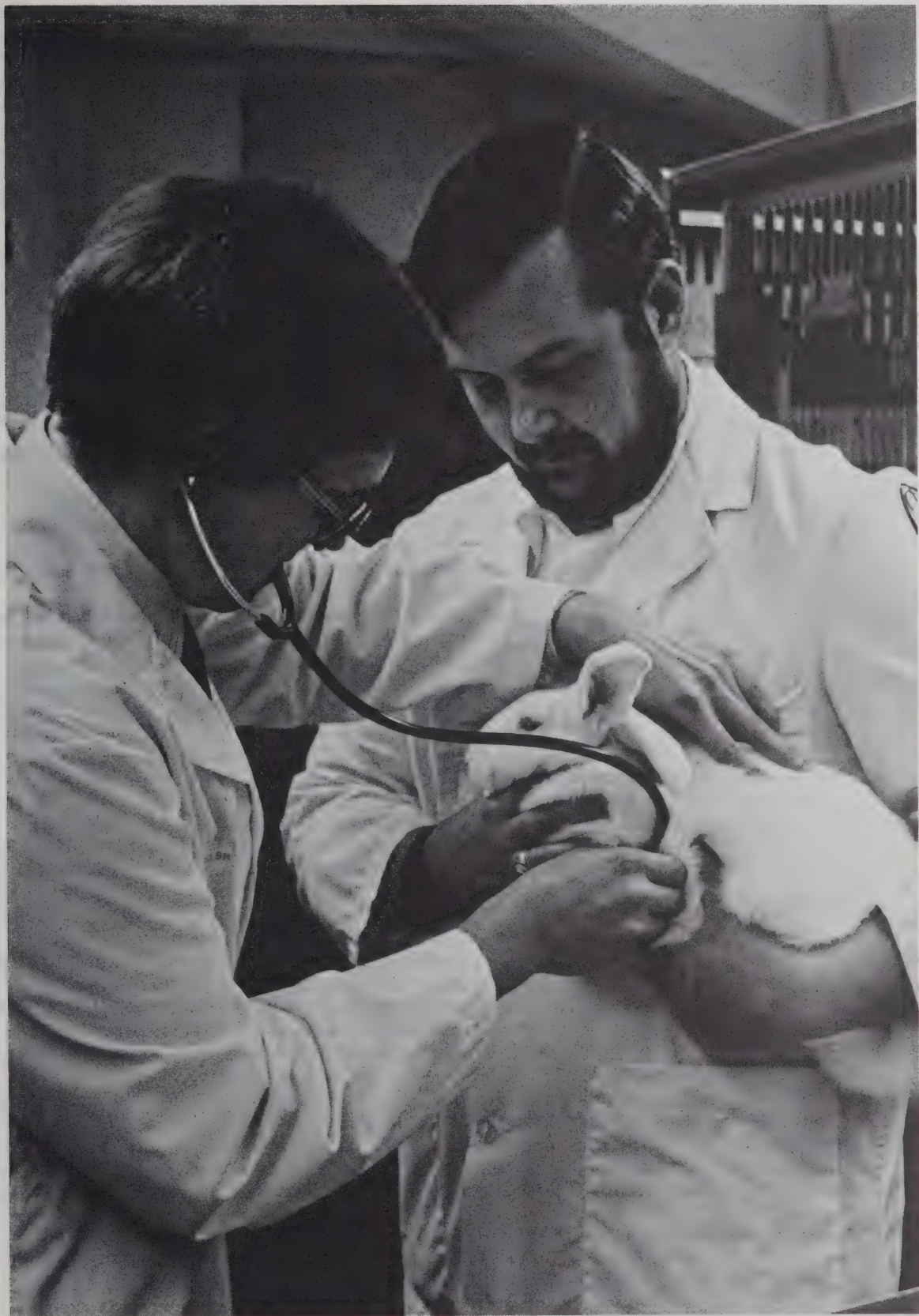
The Department of Microbiology participates in service, educational, and research activities within the Medical Center. Clinical diagnostic services are provided in bacteriology, mycology, parasitology, and virology. Developmental research in clinical microbiology is aimed at development and/or refinement of methods for use in the diagnostic laboratories and areas of applied research are pursued in collaboration with the departments of internal medicine and obstetrics and gynecology. A three-month rotation through the clinical laboratories is available to residents in internal medicine, surgery and pathology.

A core microbiology course and electives in clinical bacteriology and diagnostic virology are presented to Rush medical students, and elective courses are offered to graduate students enrolled in the College of Health Sciences. Members of the department also participate in teaching activities of other departments and programs within the Medical Center and in the Department of Microbiology, University of Illinois Graduate College. Staff members based at Mount Sinai Hospital Medical Center participate in Rush educational activities, and the microbiology teaching programs at Grinnell and Knox colleges are coordinated through the department.

Basic research activities include studies of viral and chemical carcinogenesis, viral hepatitis, slow (virus) infections, persistent rubella virus infections, and periodontal disease. Marmoset monkeys are used as experimental models in many of the systems; the department maintains a colony of approximately 1,000 marmosets in space provided through the courtesy of the City of Chicago Department of Health.

In carcinogenesis studies, oncogenic RNA viruses (oncornaviruses) and lymphotropic herpesviruses of primate origin are evaluated for transforming potential *in vitro* and oncogenicity *in vivo*. Cell susceptibility, mechanisms of transformation, and viral gene expression are investigated *in vitro*. Attempts to isolate or identify oncogenic viruses from spontaneous human and nonhuman primate tumors are pursued. Eight experimental tumor models (3 sarcoma, 1 glioma, 4 lymphoproliferation) have been established in marmoset monkeys and selected models are investigated from the standpoints of pathogenesis, viral gene expression, host immune response, and efficacy of therapy or prevention. Studies of chemical carcinogenesis and viral-chemical co-carcinogenesis in primate cells are under way. Establishment of a primate model for brain tumors is being pursued in collaboration with the Department of Neurological Surgery.

Virologic and immunologic studies of hepatitis A, B and non A-non B are conducted in collaboration with the Section of Hepatology, Department of Internal Medicine. A major objective is to identify susceptible cell cultures for propagation of hepatitis viruses. In collaboration with the Department of Neurological



Sciences, pathogenicity of mutant or defective measles virus is studied in nonhuman primates, the aim being to develop a model of subacute or chronic central nervous system (CNS) disease induced by measles virus. Studies are under way, in collaboration with the Section of Rheumatology, Department of Internal Medicine, to test the hypothesis that persistent, latent infection with rubella virus plays a role in the cause of some forms of rheumatoid arthritis. Antibodies to rubella virus were elevated in a small sample of patients with rheumatoid arthritis, and a cell membrane antigen that may be specified by the rubella virus genome was detected on rheumatoid synovial cells by cytotoxicity tests with monospecific rubella virus antiserum.

The microbial components of subgingival plaque associated with various stages of periodontal lesions are investigated. Emphasis is placed on the analysis of end products of organisms and definition of the bacterial products associated with pathogenicity.

Department of Pharmacology

Carson, Paul E., M.D., Chairman

Boyd, Eugene, Instructor, CHS

Denbo, John R., Ph. D., Assistant Professor, CHS (Rush-Grinnell program)

Ebersman, Donald S., Ph. D., Professor, CHS and RMC and Senior Scientist, PSLH; Director, Section of Pharmaceutical Sciences

Ecanow, Bernard, Ph. D., Visiting Professor, CHS and RMC and Consultant, PSLH (also Anesthesiology)

Frischer, Henri, M. D., Ph. D., Professor, CHS and RMC and Senior Attending, PSLH; Director, Section of Blood Genetics and Pharmacogenetics (also Internal Medicine)

Gdalan, Louis, B.S., R. Ph., Professor Emeritus, CHS and RMC and Emeritus, PSLH (also Internal Medicine)

Klawans, Harold L., M. D., Professor, CHS and RMC and Senior Attending, PSLH (also Neurological Sciences)

Le Grady, Dan C., Pharm. D., Instructor, CHS and Adjunct Scientist, PSLH (also Internal Medicine)

Macleod, Catherine M., M. D., Assistant Professor, CHS and RMC and Assistant Attending, PSLH (also Internal Medicine)

McKenna, Rasalaxmi, M. D., Assistant Professor, CHS and RMC and Assistant Attending, PSLH (also Internal Medicine)

Moon, Byong H., Ph. D., Assistant Professor, CHS and RMC and Assistant Scientist, PSLH (also Internal Medicine)

Nausieda, Paul A., M. D., Assistant Professor, CHS and RMC and Assistant Attending, PSLH (also Neurological Sciences)

Nootens, Raymond H., M. D., Assistant Professor, CHS and RMC and Assistant Attending, PSLH (also Ophthalmology)

Nora, Maris V., Pharm. D., Ph. D., Instructor, CHS and Assistant Scientist, PSLH

Parkhurst, George W., Ph. D., Assistant Professor, CHS and RMC and Assistant Scientist, PSLH; Director of Laboratory Services

Prancan, Arthur V., Ph. D., Assistant Professor, CHS and RMC and Assistant Scientist, PSLH (also Internal Medicine)

Rieckmann, Karl H. W., M. D., Visiting Professor, CHS and RMC and Consulting, PSLH

Trenholme, Gordon M., M. D., Assistant Professor, CHS and RMC and Assistant Attending, PSLH (also Internal Medicine)

Weiner, William J., M. D., Associate Professor, CHS and RMC and Associate Attending, PSLH (also Neurological Sciences)

The Department of Pharmacology provides consultation in clinical pharmacology, supervises and coordinates the pharmacology teaching program for medical, graduate, and nursing students, offers continuing education for house officers and staff, and provides facilities for clinical and laboratory investigation. Topics of special interest include the role of enzymes and genetically determined alterations of enzymes in cellular and drug metabolism as related both to normal regulatory processes and to clinical disorders. Current active investigations include the chemotherapy of cancer, the role of prostaglandins (especially in shock), the neuropharmacology of stereotyped behavior, and drug-induced hemolytic anemia. These investigations are pursued at the molecular, cellular, and clinical levels and are related to human enzyme variations, both genetic and induced.

The department maintains the Laboratory for Red Cell Genetics in the Section of Blood Genetics and Pharmacogenetics (Henri Frischer, M.D., Ph.D., Director) and the Pharmacology Research Laboratory. In the Section of Pharmaceutical Sciences (Donald S. Ebersman, Ph.D., Director), an active clinical pharmacy program is being formulated in close conjunction with the development of a clinical pharmacology program and the establishment of laboratory drug services. Students, house staff, and fellows are encouraged to join in the clinical and investigational efforts of this on a part-time, quarterly, or yearly basis. Formal programs leading to the Ph.D. degree have been established in the Graduate School.

Department of Physiology

Eisenberg, Robert S., Ph.D., the Francis N. and Catherine O. Bard Chairman

Agarwal, Gyan C., Ph.D., Visiting Professor, CHS

Barcilon, Victor, Ph.D., Visiting Professor, CHS

Brueschke, Erich E., M.D., Professor, CHS and RMC (also
Family Practice)

Bullock, James, B.S., Assistant, CHS

Cohen, Fredric S., Ph.D., Assistant Professor, CHS

Donaldson, Sue K., Ph.D., Associate Professor, CHS

Eisenberg, Brenda, Ph.D., Assistant Professor, CHS and RMC
(also Pathology)

Eisenberg, Robert S., Professor, CHS and RMC

Giuffre, Verlin W., B.S.E.E., Instructor, CHS

Gottlieb, Gerald L., Ph.D., Associate Professor, CHS and RMC

Hegyvary, Csaba, M.D., Associate Professor, CHS and RMC and
Associate Scientist, PSLH (also Internal Medicine)

Heyer, Carolyn B., Ph.D., Assistant Professor, CHS

Kootsey, Joseph M., Ph.D., Visiting Professor, CHS

Levett, Jeffrey, Ph.D., Associate Professor, CHS and RMC (also
Ophthalmology)

Levis, Richard A., B.S., Assistant, CHS

Lewis, Carol, Ph.D., Assistant Professor, CHS

Mathias, Richard T., Ph.D., Assistant Professor, CHS

Michael, Joel A., Ph.D., Associate Professor, CHS and RMC (also
Neurological Sciences)

Milner-Brown, Sandy, M.D., CHS and RMC (also Neurological
Sciences)

Pencek, Terrence L., Ph.D., Assistant Professor, CHS and RMC

Rovick, Allen A., Ph.D., Associate Professor, CHS and RMC

Schauf, Charles L., Ph.D., Associate Professor, CHS and RMC
(also Neurological Sciences)

Physiology is the study of function and mechanism of function of the various components of plants and animals. Physiological questions are asked about tissues at every level of structural complexity, ranging from questions of human behavior to questions of the physics of ion movement. Such physiological questions may have direct relevance to practical issues of health and disease since some disease processes depend directly on the function of both gross and submicroscopic structures. Physiological questions have a unity because the methods of describing and analyzing function are *not* diverse, even if the structures performing those functions are.

The unity of physiology arises then from the question it asks. The diversity of physiology arises from the systems about which those questions are asked. The fun of physiology arises from the tension between its unity and its diversity.

Members of the department teach at both undergraduate and postgraduate levels in the Medical Center and collaborate with other departments within the Medical Center and in neighboring institutions in both teaching and research. Teaching activities at Rush include a core physiology course, elective courses, and supervision of research training.

Department of Psychology and Social Sciences

Cartwright, Rosalind, Ph.D., Chairman

Bieliauskas, Linas, B.S., M.S., Ph.D., Assistant Professor, CHS and RMC and Assistant Scientist, PSLH

Brocken, Cecilia, B.S., M.A., Ph.D., Associate Professor, CHS and RMC and Associate Scientist, PSLH (also Pediatrics)

Cartwright, Rosalind, B.A., M.A., Ph.D., Professor, CHS and RMC and Senior Scientist, PSLH

Cheifetz, David I., M.A., Ph.D., Professor, CHS and RMC and Senior Scientist, PSLH

Christman, Luther, B.S., Ed. M., Ph.D., Professor, CN, CHS, and RMC and Senior Scientist, PSLH

Clark, David C., B.A., M.A., Instructor, CHS and RMC (also Psychiatry)

Counte, Michael A., B.A., M.A., Ph.D., Assistant Professor, CN, CHS, and RMC

deToledo, Leyla, Ph.D., Associate Professor, CHS and RMC

Driscoll, Paul F., M.Ed., Instructor, CHS and RMC and Adjunct Scientist, PSLH (also Pediatrics)

Elbert, Jean C., B.A., M.A., Associate, CHS and RMC and Adjunct Scientist, PSLH (also Psychiatry)

Exum, Dolores B., B.A., M.S.W., Associate, CHS and RMC (also Preventive Medicine)

Feldman, Howard S., A.B., M.S., Ph.D., Assistant Professor, CHS and RMC and Assistant Scientist, PSLH

Garron, David C., B.A., M.A., Ph.D., Professor, CHS and RMC and Senior Scientist, PSLH

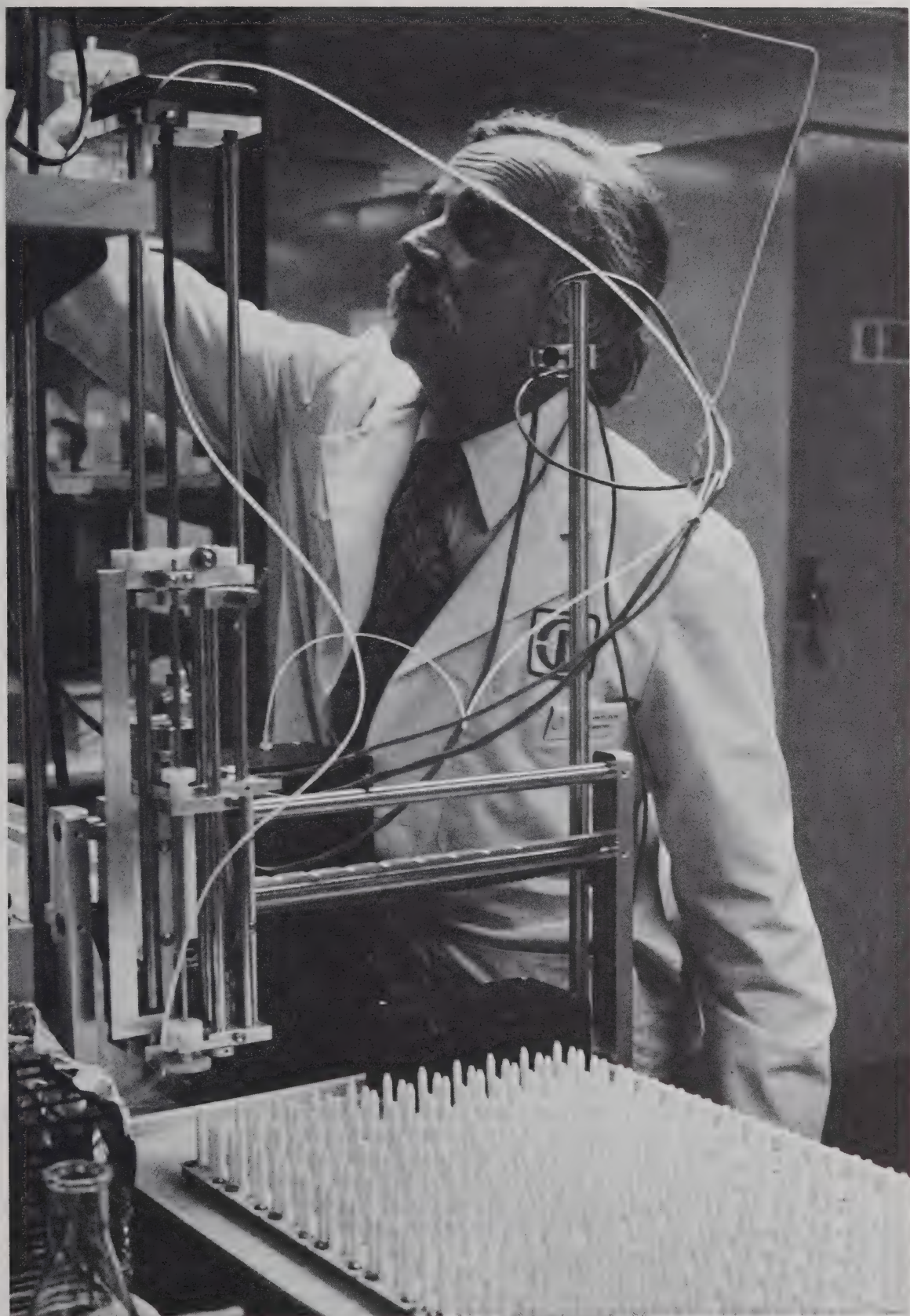
Guise, Gracia, B.S., M.S., Assistant Professor, CHS and RMC and Associate Scientist, PSLH (also Psychiatry)

Hegyvary, Sue T., B.S.N., M.N., Ph.D., Associate Professor, CN and Assistant Professor, CHS

Kasznik, Alfred W., B.S., M.A., Ph.D., Assistant Professor, CHS and RMC and Assistant Scientist, PSLH

Kelly, M., M.S., Instructor, CHS and RMC and Adjunct Scientist, PSLH

Kooker, Katharine, Instructor, CHS and RMC



Leavitt, Frank, B.A., Ph.D., Associate Professor, CHS and RMC and Senior Scientist, PSLH

Lindner, Ronald S., B.A., Ph.D., Associate Professor, CHS and RMC and Associate Scientist, PSLH

Linsky, Miles, B.S., M.S., Ph.D., Assistant Professor, CHS

Lipoff, Dennis A., B.S., M.B.A., Ph.D., Assistant Professor, CHS and RMC and Assistant Scientist, PSLH (also Psychiatry)

Lipgar, Robert M., Ph.D., Visiting Professorial Lecturer, CHS and RMC and Assistant Scientist, PSLH

McNamara, Barry T., B.S., J.D., Assistant Professor, CHS and RMC

Martin, Dan, Ph.D., Assistant Professor, CHS and RMC

Mead, John D., M.S., Instructor, CHS and RMC and Adjunct Scientist, PSLH

Miller, Robert B., B.S., M.S., Ph.D., Assistant Professor, CHS

Moncrieff, Ellsworth H., B.A., Complemental Faculty, CHS and RMC

Padonu, Georgia B., R.N., B.S.N., M.S.N., M.P.H., Dr.P.H., Assistant Professor, CN, CHS, and RMC

Pavlou, Marcia M., B.A., M.A., Ph.D., Assistant Professor, CHS and RMC and Assistant Scientist, PSLH (also Neurological Sciences)

Pisani, Vincent D., B.S., M.A., Ph.D., Assistant Professor, CHS and RMC and Assistant Scientist, PSLH (also Psychiatry)

Schevers, Thomas, M.A., Instructor, CHS and RMC

Schneider, Anne S., R.N., B.A., M.A., Ph.D., Assistant Professor, CHS and RMC and Assistant Scientist, PSLH

Schoenenberger, Joseph C., B.S., M.S., Ph.D., Assistant Professor, CHS and RMC and Associate Scientist, PSLH (also Preventive Medicine)

Stephens, Alice, B.A., M.A., Ph.D., Assistant Professor, CHS

Ulrich, Larry K., B.A., M.Div., S.T.M., D.Min., Associate Professor, CHS and RMC

Watson, Laura H., B.A., M.A., Instructor, CHS and RMC and Adjunct Scientist, PSLH (also Psychiatry)

Weber, Steven, Ph.D., Assistant Professor, CHS and RMC, and Assistant Scientist

Wilson, Robert S., M.A., Ph.D., Instructor, CHS and RMC and Adjunct Fellow, PSLH

The Training Setting

The Department of Psychology and Social Sciences, which focuses on both the basic science and the clinical aspects of psychology, provides setting for the training of professional psychologists. Special advantages accrue to the staff and interns because of the organization of psychologists on the faculty and staff in an independent departmental structure. Consequently, psychologists in their scientific, academic, and clinical service activities can function with the same degree of professional independence and autonomy that characterize other professional groups in the Medical Center. This has permitted innovative program development in the areas of medical education and clinical service delivery.

The department offers a full-time internship, approved by the American Psychological Association (APA), which fulfills the internship requirement for a doctoral program in clinical psychology.

Multiple clinical settings and clinical programs throughout the Medical Center offer training experiences to interns. Programs of

special note include the general consultation service, the neuropsychology service, the Office of Behavioral Studies, the Multiple Sclerosis Center, the pediatric psychology program, the Children's Therapeutic Day Hospital and School, and the community psychology program. Over 20 professional clinical psychologists staff these programs, which are located throughout the Medical Center. The department is particularly interested in the roles and functions of the professional psychologist in the general medical setting, including his or her contribution to multidisciplinary care of the medical patient.

The clinical programs of the department include not only the traditional problems of evaluation and care of psychiatric populations, but also diagnostic consultation and evaluation in the neuropsychological conditions and in the areas of pain, aging, chronic disease, rehabilitation, tension states, sleep and learning disabilities. The department serves as an active referral resource for patients with somatic complaints but no physical findings, and for the more acute emotional and behavioral disturbances seen in relation to medical conditions. Treatments for such conditions include behavioral management, short-term psychotherapy, crisis intervention, behavior modification, biofeedback, and counseling.

Psychological programs of other departments also serve as a training base for interns. The Department of Psychiatry maintains an inpatient unit for adults, outpatient programs for adults and children, and a therapeutic day hospital and school for emotionally and behaviorally disturbed children. The psychology staff of the Department of Pediatrics provides diagnostic and therapeutic services to children up to 18 years of age and their families.

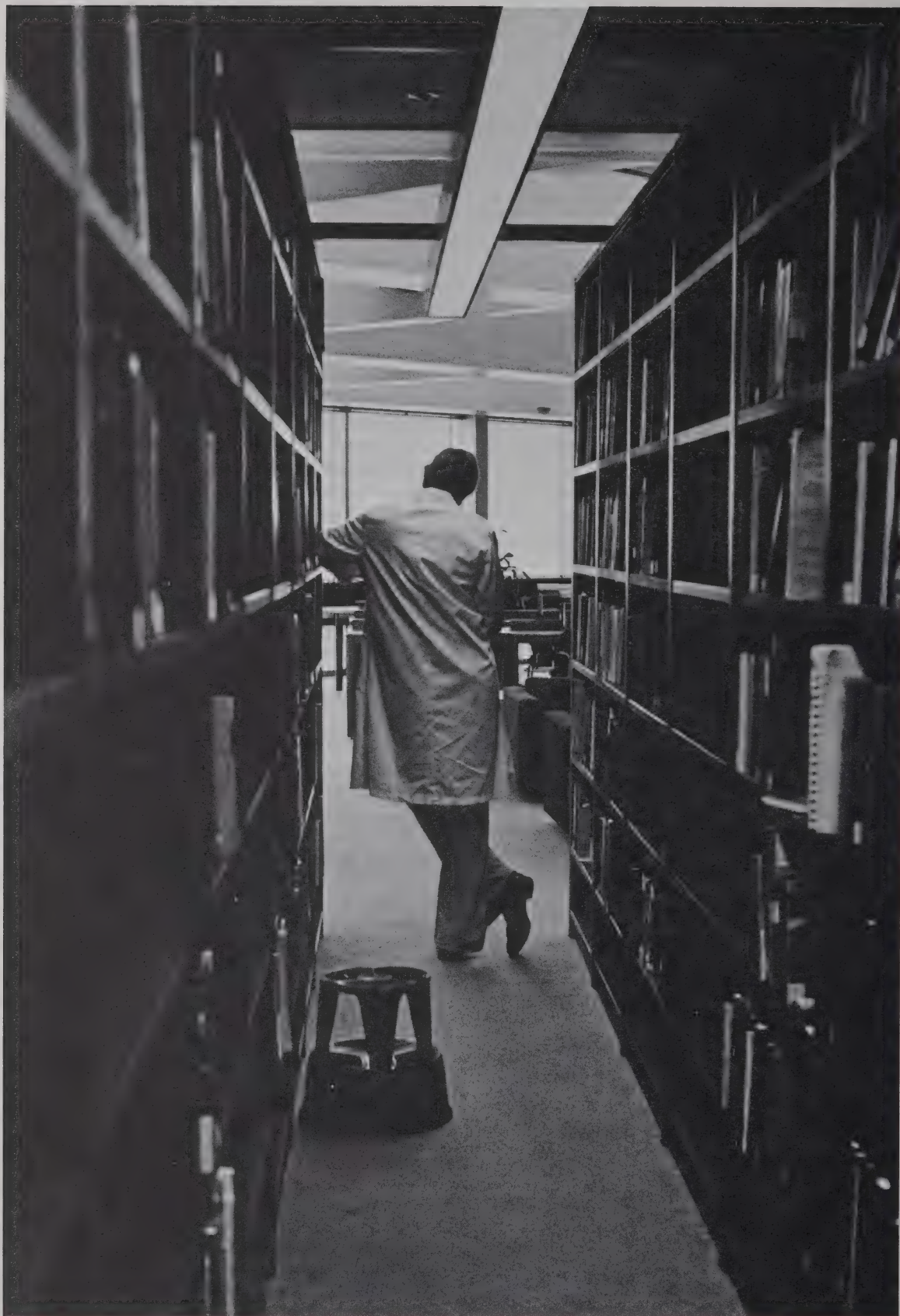
Presenting problems range from traditional types of psychopathology to management problems resulting from acute and chronic illness. The community psychology program at the Mile Square Health Center provides comprehensive mental health care on the individual, family, and community levels. With a staff of six psychologists, the community psychology program provides multiple services to urban inner-city residents.

General Clinical Psychology Internship

This internship emphasizes the important contribution the clinical psychologist can make in the general hospital setting. It is the broadest training option offered, and provides solid clinical training and diverse experience. At any given time, the general intern may be responsible for diagnostic assessment of at least 20 patients and will carry a therapeutic caseload of eight cases. These may be individuals, couples, families, or patient groups. The intern also may elect to include in his or her program areas of special interest, such as child psychology, chronic disease, geriatrics, community mental health, or work with other special patient populations. The intern can expect to work in multidisciplinary settings, combining his or her skills with those of neurologists, psychiatrists, pediatricians, and other medical specialists. Additional training is provided in staff and ward meetings, training seminars, and case conferences.

Clinical Child Internship

Clinical child interns are encouraged to define their roles within the broad spectrum of child behavior, normative as well as pathological. Consequently, the program emphasizes familiarity and appropriate techniques for dealing with the manifold problems of children in health care settings. Child interns will receive training in the



programs of pediatric psychology and in the Children's Therapeutic Day School. In combining these training settings, interns obtain comprehensive training in the assessment and treatment of childhood psychopathology, and in the assessment and amelioration of developmental problems associated with medical conditions. Training will emphasize early recognition of emotional and behavioral problems, the relation of medical conditions to psychological difficulties, emotional and familial problems that complicate medical management, hospitalization and its effects, birth defects, language disorders, and others. In the day school, interns can relate classroom behavior to diagnostic assessment and progress in psychotherapy. In both programs, parents, children, and families may be seen. Interns are involved in all aspects of clinical service in these settings and participate regularly in clinical staffings, rounds, and conferences.

Clinical Neuropsychology

This program, which is intended for those interested in clinical or clinical research careers in neuropsychology, emphasizes the assessment of cognitive and affective sequelae of central nervous system disorders. The neuropsychology service of the department offers consultation to the departments of neurological Sciences, neurological surgery, and the Johnston R. Bowman Health Center for the Elderly. Special emphasis is placed on the study of the dementias, neurological aspects of aging, focal manifestations of vascular disease, focal and diffuse cerebral lesions, neoplastic disease, epilepsies, toxic states, and other conditions that affect cognitive function. The clinical utility of neuropsychological assessment is demonstrated in interdisciplinary settings. Direct therapeutic services are sometimes provided in collaboration with the Office of Behavioral Studies. Interns in neuropsychology participate in many seminars and courses in the neurosciences offered in the Medical Center. Clinical diagnostic skills receive major emphasis in this program.

Health Care Psychology

This internship emphasizes the application of psychological principles and techniques to complicated medical/behavioral problems. New programs have been developed to bring psychological techniques to bear on various chronic and acute medical conditions, such as chronic headache, pain, neuromuscular and sleep disorders, hypertension, asthma, chronic gastrointestinal distress, arthritis, tension states, and multiple sclerosis. Interns train within these departmental programs, spending the remaining half of their time in the general internship program. Interns are trained to provide psychological services in diagnosis, management, and treatment, utilizing traditional and innovative modalities. Interns are expected to participate in all aspects of patient care and new program development.

Clinical Community Psychology

The community psychology internship is a joint program of this department and the Department of Mental Health at nearby Mile Square Health Center. Thus, the internship is well-founded in the hospital's established psychological programs and in the innovative community approaches available in a community setting. This arrangement allows interns to build foundation skills in diagnosis and psychotherapy while applying the body of psychological knowledge and skills at the community level. Community training emphasizes broad-based application of psychological skills to

problems on the individual, social, and community levels. Interns train in sustaining care programs, outpatient treatment programs, community day treatment centers, crisis intervention units, primary prevention programs in neighborhood schools, and in coordinated medical/behavioral programs in such areas as nutrition, family planning, and community nursing. In most cases, liaisons are emphasized with state agencies and boards, private service organizations, schools, and other community resources necessary for effective service integration. Interns can participate in all aspects of program development.

Research in the Training Year

The internship is viewed as a year of intensive clinical training, which does not leave time for pursuit of independent research. Interns are strongly encouraged to avoid the necessity of overlapping internship training with dissertation activities. The staff does not view internship as including research training, access to patient populations for research purposes, or time for outside research projects.

Training Staffs and Seminars

Many courses in the Rush Medical College curriculum are available for interns to audit. The Medical Center is replete with training staffs, seminars, and clinical conferences. These can be attended by all Medical Center trainees. In addition, special intern training seminars are offered by this department. These include diagnostic case conferences, psychotherapy seminars, family therapy seminars, child therapy seminars, and Rorschach seminars. Special seminars can be provided in other areas such as neuropsychology, descriptive psychopathology, community psychology, and professional problems.

Postdoctoral Fellowships

The department offers two postdoctoral fellowships, one in human clinical neuropsychology and one in sleep disorders. Both are open to graduates of doctoral programs in clinical psychology or related fields. The applicants should have doctoral-level knowledge of brain structure and function, clinical concepts, and techniques for assessing cognitive function. Applicants should also have explicit interests in clinical neuropsychological or sleep research. Clinical inpatient and outpatient populations are available for research purposes, and collaboration with other departments is encouraged. Appointment is for a one-year term, and reappointment for a second year is possible.

Eligibility

Students of university doctoral programs in clinical psychology are eligible for appointment. Six internships are awarded each year; four are available to students of APA-approved programs; two are available for exceptional students from non-APA-approved programs. Applications are reviewed independently. Appointment procedures follow the guidelines of the Association of Psychology Internship Centers. Applications should be received by January 31 for appointment the following September. For further information and a detailed brochure, write to: Linas A. Bieliauskas, Ph. D., Acting Director of Clinical Training.



Medical Sciences and Services

Leo M. Henikoff, M.D.,
Associate Dean for
Medical Sciences and Services
and Vice President for
Inter-Institutional Affairs

**Department of
Dermatology**

Malkinson, Frederick D., D.M.D., M.D., Chairman
Bielinski, Stefan, B.S., M.D., Assistant Professor, RMC and Associate Attending, PSLH
Blankenship, Marshall, M.D., Assistant Professor, RMC and Assistant Attending, PSLH
Earles, Rene, B.S., M.D., Instructor, RMC and Assistant Attending, PSLH
Ertle, James, M.D., Assistant Professor, RMC and Assistant Attending, PSLH
Gehlmann, Louisa M., M.D., Instructor, RMC and Assistant Attending, PSLH.
Haeberlin, Jr., John B., B.S., M.D., Emeritus, RMC and Emeritus, PSLH
Kaplan, Sidney, M.S., M.D., Associate Professor, RMC and Assistant Attending, PSLH
Keane, John T., M.D., Assistant Professor, RMC and Assistant Attending, PSLH
Malkinson, Frederick D., D.M.D., M.D., Professor, RMC and Senior Attending, PSLH
O' Donoghue, Marianne N., A.B., M.D., Assistant Professor, RMC and Assistant Attending, PSLH
Pearson, Roger W., M.D., Professor, RMC and Senior Attending, PSLH
Rostenberg, Jr., Adolph, M.D., Emeritus, RMC and Emeritus, PSLH
Smith, Edwin, M.D., Emeritus, RMC and Emeritus, PSLH
Spinka, Harold M., B.S., M.D., Assistant Professor, RMC and Associate Attending, PSLH
Strohl, Lee H., M.D., Instructor, RMC and Assistant Attending, PSLH
Szymanski, Frederick J., M.D., Professor, RMC and Senior Attending, PSLH

The Department of Dermatology is devoted to patient care, medical student training, and clinical and laboratory research. Outpatient facilities and an inpatient service, as well as consultations for hospitalized patients are provided. All private patients in the offices of the full-time staff are seen by residents and medical students. The department conducts regular formal and informal teaching sessions for house staff and students as well as clinical sessions for the entire full-and part-time departmental staff. The department accepts two fourth-year medical students per month for an elective period. Medical students who elect to rotate through the dermatology department also see consultations patients and outpatients, and assume responsibilities for the inpatient service—all under the supervision and instruction of full-time staff members.

Three main areas of laboratory research are currently under active investigation: (1) the effects of ionizing radiation and drugs on proliferating hair matrix cells; (2) ultrastructural analysis of skin

Key: RMC—*Rush Medical College*; CHS—*Rush College of Health Sciences*; RCN—*Rush College of Nursing*; PSLH—*Presbyterian-St. Luke's Hospital*; LOA—*Leave of Absence*; CMGH—*Community Memorial General Hospital*; SCH—*Swedish Covenant Hospital*; MSHMC—*Mount Sinai Hospital Medical Center*; CH—*Christ Hospital*; GCH—*Galesburg Cottage Hospital*; CDH—*Central DuPage Hospital*; WSH—*West Suburban Hospital*

reactions to injury, especially from ionizing radiation and chemotherapeutic agents; and, (3) mechanisms of urticaria reactions and ultrastructural pathology of blistering diseases.

The Department of Dermatology is approved for the full three-year training program for residents in dermatology and generally accepts one resident each year. Currently three residents are in training.

Department of Family Practice

Brueschke, Erich E., M.D., Chairman

Albovias, Susan P., M.D., Instructor, RMC and Associate Attending, CH

Anderson, Philip D., M.D., Ph.D., Professor, RMC and Senior Attending, SCH

Ballin, Michael, M.D., Assistant Professor, RMC and Active Attending, CH

Bender, Harry Z., M.D., Complementary Member, RMC and Attending, CH

Brant, Julius, M.D., Professor, RMC and Active Attending, CH

Brueschke, Erich E., M.D., Professor, RMC, Associate Attending, CH, and Senior Attending, PSLH (also Physiology)

Burdick, Allison L., Jr., M.D., Professor, RMC and Senior Attending, WSH

Chrisos, Sam S., M.D., Assistant Professor, RMC and Active Attending, CH

Feldman, Bernard, M.D., Assistant Professor, RMC and Program Director, Emergency Medicine, and Associate Attending, CH

Feria, Aracelia, M.D., Instructor, RMC and Associate Attending, CH

Frankovelia, Nicholas R., M.D., Assistant Professor, RMC and Attending, CH

Garwacki, John H., M.D., Complementary Member, RMC and Attending, CH

Gingold, Walter, M.D., Assistant Professor, RMC and Active Attending, CH

Glassman, Harold S., M.D., Assistant Professor, RMC and Active Attending, CH

Gnap, John J., M.D., Assistant Professor, RMC and Associate Attending, CH

Green, Jerome G., M.D., Assistant Professor, RMC and Associate Attending, CH

Heck, Robert S., M.D., Professor, RMC and Active Attending, CH

Humowiecki, Stephen, M.D., Instructor, RMC and Associate Member, WSH

Kanaris, Mrak, M.D., Associate Professor, RMC and Senior Attending, CH

Krolkowski, John R., M.D., Complementary Member, RMC and Active Attending, CH

Levine, Charlotte C., M.D., Assistant Professor, RMC and Senior Attending, PSLH (also Internal Medicine and Preventive Medicine)

Lopez, Marco A., M.D., Assistant Professor, RMC and Active Attending, CH

Macentee, Peter F., M.D., Assistant Professor, RMC and Associate Attending, CH

Marchmont-Robinson, Harry, M.D., Complementary Member, RMC and Active Attending, CH

Milton, Bernard, M. D., Instructor, RMC and Assistant Attending, CMGH
 Moore, Marilyn, M. A., Instructor, RMC
 Nelson, Delburt H., M. D., Assistant Professor, RMC and Active Attending, CH
 Poulos, George T., M. D., Assistant Professor, RMC and Associate Attending, CH
 Ricker, Alfred P., M. D., Professor, RMC and Active Attending, CH
 Ruff, William J., M. D., Associate, RMC and Active Attending, CH
 Ryd, William J., M. D., Associate, RMC and Associate Attending, CH
 Shariff, Nayeem, M. D., Instructor, RMC and Associate Attending, CH
 Shobris, Martin, M. D., Assistant Professor, RMC and Active Attending, CH
 Tkach, John I., M. D., Complemental Member, RMC and Associate Attending, CH
 Wagner, Hans H., M. D., Associate Professor, RMC and Active Attending, CH
 Wall, James M., M. D., Complemental Member, RMC and Associate Attending, CH
 Zitek, Russell, M. D., Assistant Professor, RMC and Senior Attending, CMGH

The Department of Family Practice offers a three-year postdoctoral residency training program in family practice with an optional fourth-year fellowship to train academic family physicians to assume a leadership role in family practice. The focus of training is the relationship with and care of the patient. The intellectual and academic basis for family practice is patient management.

Eight residency positions are offered at each level of the program. Four fourth-year fellowships are also offered. This is an integrated residency program, with residents rotating through the Medical Center for approximately 50 percent of their inpatient experiences, and to Christ Hospital for the other 50 percent of their inpatient experiences. All of their outpatient experiences are at the Christ Hospital's Family Practice Center, where they maintain continuity of care with their patients in that teaching/community hospital setting for three years. This integration provides the residents with experience at both a tertiary care academic medical center and a high-quality, private practice, community-oriented hospital.

During the first year, the resident spends about one-half day per week in the Family Practice Center and begins to develop a patient load of about 50 families. During the second year, this is increased to about 150 families, and during the third year to approximately 250 families. The resident provides care on a continuous basis through scheduled appointments, and arranges hospitalization when necessary under the direct supervision of Family Practice Center faculty. Third-year residents spend half of their time at the Center.

The object of the residency is to give residents progressively graded responsibilities for delivering continuous comprehensive health care. A core content of knowledge skills is essential. Core content insures adequate breadth and depth of training for each resident and also serves as an organizing network for the program. A competency-based curriculum provides carefully constructed

educational experiences as well as methods to monitor resident performance, growth, and deficits.

The first year consists of six months of internal medicine, three months of pediatrics, and three months of obstetrics and gynecology. This prepares the resident to begin as a second-year resident with a sufficient training in medicine so that he or she can assume second-year level responsibility when on the various rotations. The third year consists primarily of electives such as cardiology and radiology, a third-year resident research project, and experiences in community medicine. During one month of the senior year, each resident is in charge of the Family Practice Center. Behavioral science training is longitudinal throughout the three years.

An optional fourth-year fellowship in family practice will be available to four residents per year who have completed three years of family practice residency training in approved programs. This fellowship will be available to selected individuals who have expressed interest and have demonstrated ability as teachers. These individuals spend approximately 50 percent of their time in didactic lectures and in specific course material at Rush-Presbyterian-St. Luke's Medical Center and the other one-half of their time serving as a teacher in a network hospital family practice center.

All members of the attending staff are actively engaged in the teaching programs for house staff and medical students. Residents at all levels, especially third-year residents and fourth-year fellows, are involved in student teaching activities with Rush Medical College.

Department of Internal Medicine

Schwartz, Theodore B., M.D., Chairman

Kark, Robert M., M.D., Associate Chairman

Trobaugh, Frank E., Jr., M.D., Associate Chairman

Harris, Alan A., M.D., Assistant Chairman

Hudson, Edsel K., M.D., Assistant Chairman

Ackerman, Laurens V., B.A., M.D., Assistant Professor, RMC
(also Diagnostic Radiology)

Adler, Solomon S., B.S., M.D., Assistant Professor, RMC and
Assistant Attending, PSLH

Aggarwal, Keshev, M.D., Instructor, RMC and Adjunct
Attending, PSLH

Aggarwal, Raj K., Ph.D., Assistant Professor, RMC and Assistant
Scientist, PSLH

Agruss, Neil, B.S., M.D., Assistant Professor, RMC

Akre, Osmund H., B.A., M.D., Emeritus, RMC and Emeritus,
PSLH

Alavi, Iltifat A., B.S., M.B.B.S., M.R.C.P., Assistant Professor,
RMC, CMGH

Anderson, Kenning M., M.D., Ph.D., Assistant Professor, RMC
and Associate Scientist, PSLH (also Biochemistry)

Andrews, William J., B.S., M.D., Associate Professor, RMC,
SCH

Ashbach, David L., A.B., M.D., Instructor, RMC and Adjunct
Attending, PSLH

Bachmann, Fedor, B.A., M.D., Visiting Associate Professor,
RMC and Consultant, PSLH

Backer, M. Barbara, A.B., M.D., Assistant Professor, RMC and
Assistant Attending, PSLH

Bacus, James W., B.S., Ph. D., Associate Professor, RMC and Associate Scientist, PSLH
 Bakken, C. David, B.A., M. D., Instructor, RMC and Adjunct Attending, PSLH
 Baldwin, David, A.B., M. D., Associate Professor, RMC and Senior Attending, PSLH
 Balkoura, Maria H., M.D., Assistant Professor, RMC, MSHMC
 Ball, Fred E., B.S., B.M., M. D., Emeritus, RMC and Consultant, PSLH
 Barton, Evan M., B.A., M. D., Professor, RMC and Senior Attending, PSLH
 Batson, Herbert C., Ph.D., Emeritus, RMC and Emeritus, PSLH
 Battle, William E., B.A., M. D., Assistant Professor, RMC and Assistant Attending, PSLH
 Becker, Frank O., B.M., M. D., Associate Professor, RMC and Associate Attending, PSLH, CH
 Belanger, Michael G., M.S., Ph. D., Instructor, RMC
 Bice, Michael K., M. D., M.DIV., Instructor, RMC
 Blaauw, Bernard B., B.S., M. D., Assistant Professor, RMC and Assistant Attending, PSLH
 Black, Arnold, M. D., Professor, RMC and Senior Attending, PSLH
 Bogdonoff, Maurice L., M. D., Professor, RMC and Senior Attending, PSLH (also Diagnostic Radiology)
 Bohan, John L., A.B., B.M., M. D., Assistant Professor, RMC, GCH
 Bolton, Cornelius F., B.S., M. D., Assistant Professor, RMC and Assistant Attending, PSLH
 Bolton, Edmund M., B.S., M. D., Instructor, RMC and Adjunct Attending, PSLH
 Bonomi, Philip D., M. D., Instructor, RMC and Adjunct Attending, PSLH
 Bose, Shyamal, M.B.B.S., Instructor, RMC, MSHMC
 Bregman, Andrew, M. D., Instructor, RMC and Adjunct Attending, PSLH, CDH
 Breuhaus, Herbert C., B.S., M. D., Emeritus, RMC and Emeritus, PSLH
 Briney, Robert R., M. D., Visiting Assistant Professor, RMC and Consultant, PSLH
 Brody, Lita, B.A., B.S., Instructor, RMC
 Brown, R. Gordon, A.B., M. D., Associate Professor, RMC and Senior Attending, PSLH
 Brown, William C., M. D., Assistant Professor, RMC and Senior Attending, PSLH
 Browning, Kenneth R., B.S., M. D., Instructor, RMC and Adjunct Attending, PSLH
 Bucheleres, H. Gunther, M. D., Professor, RMC and Senior Attending, PSLH (also Pediatrics)
 Campbell, James A., B.A., M. D., Professor, RMC and Senior Attending, PSLH
 Carasso, Ben, B.A., M. D., Associate Professor, RMC and Associate Attending, PSLH
 Carson, Paul E., M. D., Professor, RMC and Senior Attending, PSLH (also Pharmacology)
 Carton, Robert W., A.B., M. D., Professor, RMC and Senior Attending, PSLH
 Cavanaugh, Stephanie, B.S., M. D., Assistant Professor, RMC and Assistant Attending, PSLH (also Psychiatry)

Chhablani, Ramesh, B.S., M.B.B.S., M.D., Instructor, RMC and Adjunct Attending, PSLH

Clark, James G., B.S., M.D., Assistant Professor, RMC and Associate Attending, PSLH

Codini, Michele A., M.D., Assistant Professor, RMC and Assistant Attending, PSLH

Colandrea, Michael A., M.D., Assistant Professor, RMC and Associate Attending, PSLH

Cole, David R., B.A., M.D., Associate Professor, RMC, CH

Cole, Edmund R., B.S., M.S., Ph.D., Associate Professor, RMC and Associate Scientist, PSLH (also Biochemistry)

Coleman, Henry N., III, B.S., M.D., Associate Professor, RMC and Associate Attending, PSLH

Comrie, James M., M.D., Assistant Professor, RMC, CH

Conrad, Daniel E., B.S., M.D., Assistant Professor, RMC, SCH

Contro, Stephen, M.D., Assistant Professor, RMC, GCH

Coogan, Thomas J., Jr., B.S., M.D., Associate Professor, RMC and Associate Attending, PSLH

Cotts, G. William, B.S., M.D., Associate Professor, RMC, CMGH

Cuadros, Hugo F., B.S., M.D., Assistant Professor, RMC, CH

Deam, Malcolm, B.S., M.D., Assistant Professor, RMC, and Adjunct Attending, PSLH

Dederick, Margarida M., B.S., M.D., Instructor, RMC and Adjunct Attending, PSLH (also Psychiatry)

DeJong, George, B.A., M.D., Associate Professor, RMC and Assistant Attending, PSLH

DeRose, William F., A.B., M.D., Assistant Professor, RMC, CH

Devetski, Robert L., M.D., Visiting Assistant Professor, RMC and Assistant Attending, PSLH

De Young, Henry D., B.S., M.D., Associate Professor, RMC and Senior Attending, PSLH

Dhar, S. K., M.B.B.S., M.D., Assistant Professor, RMC, MSHMC

Di Filippo, Mary E., B.S., M.D., Instructor, RMC, CH

Dourdourekas, Demetrios C., M.D., Associate, RMC

Dow, James W., M.D., Professor, RMC and Senior Attending, PSLH

Dowling, Harry F., M.D., Emeritus, RMC and Emeritus, PSLH

Ducasse, Reynold, M.D., Instructor, RMC and Adjunct Attending, PSLH

Dwarakanathan, Arcota, M.D., Instructor, RMC and Adjunct Attending, PSLH (also Preventive Medicine)

Eagen, Jeremiah W., B.S., M.D., Assistant Professor, RMC and Assistant Attending, PSLH

Earle, Richard H., B.A., M.S., M.D., Associate Professor, RMC, CH

Economou, Peter G., B.S., M.S., M.D., Assistant Professor, RMC and Associate Attending, PSLH

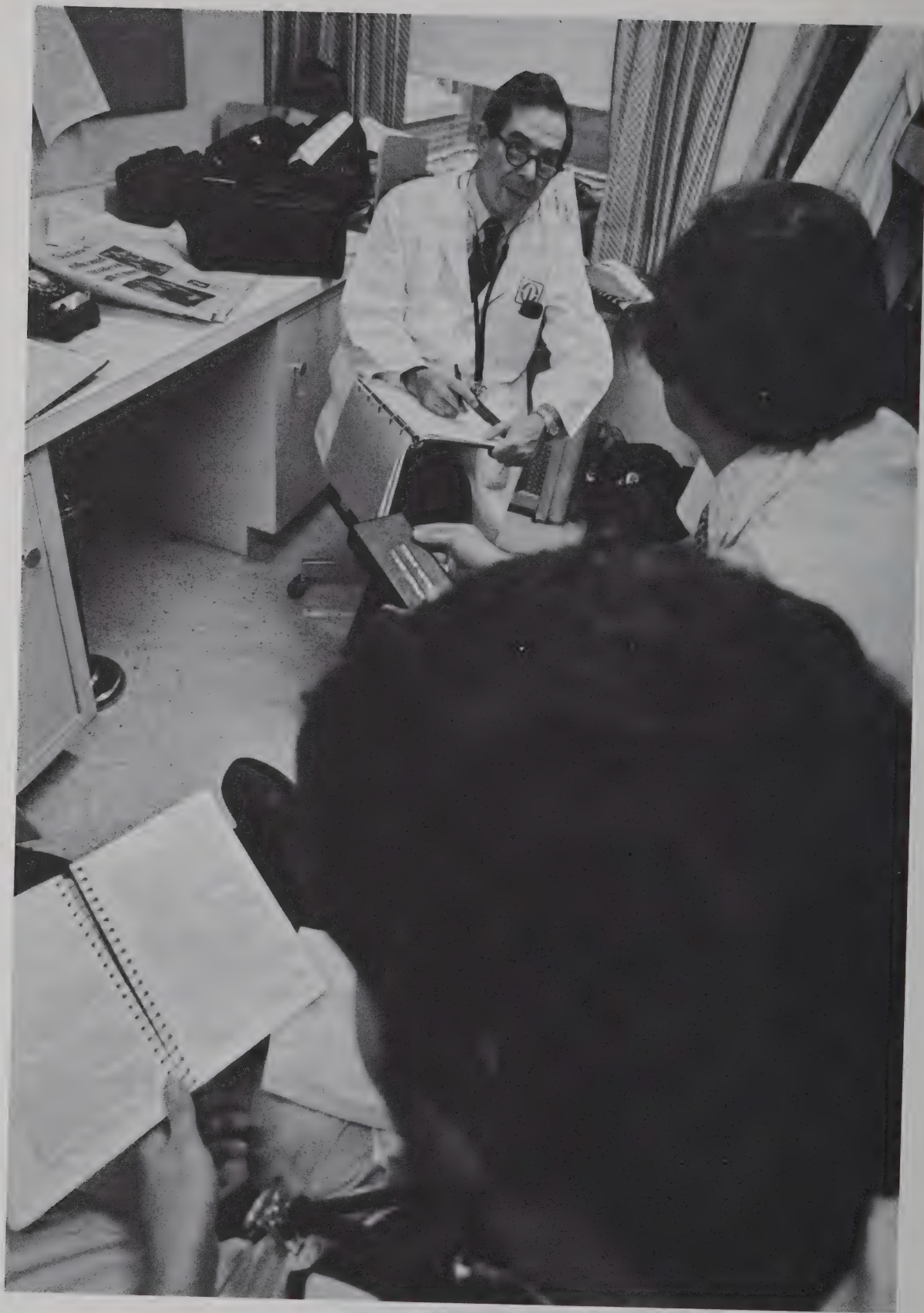
Edelberg, David K., M.D., Assistant Professor, RMC and Assistant Attending, PSLH

Epstein, Robert B., B.S., M.D., Visiting Lecturer, RMC and Consultant, PSLH

Erlenborn, James, M.D., Instructor, RMC, CDH

Evans, Thelma J., B.S., M.D., Instructor, RMC and Adjunct Attending, PSLH

Eybel, Carl E., B.S., M.D., Assistant Professor, RMC and Assistant Attending, PSLH



Farago, Peter J., M.D., Lecturer, RMC
 Felix, Robert E., M.D., Assistant Professor, RMC and Senior Attending, PSLH
 Fischer, Conrad S., B.S., M.D., Assistant Professor, RMC, CMGH
 Flanagan, George C., M.D., Associate Professor, RMC and Senior Attending, PSLH
 Fox, Jacob H., M.D., Assistant Professor, RMC and Assistant Attending, PSLH (also Neurological Sciences)
 Franklin, James L., B.S., M.D., Assistant Professor, RMC and Assistant Attending, PSLH
 Freedman, Philip, M.R.C.S., M.R.C.P., Professor, RMC, MSHMC
 Fried, Walter, M.D., Visiting Associate Professor, RMC and Consultant, PSLH
 Frischer, Henri, M.D., Associate Professor, RMC and Associate Attending PSLH (also Pharmacology)
 Galbraith, William, M.A., Instructor, RMC and Adjunct Scientist, PSLH
 Galt, Raymond M., A.B., M.D., Assistant Professor, RMC and Associate Attending, PSLH
 Garland, John T., B.A., M.D., Assistant Professor, RMC and Assistant Attending, PSLH
 Garr, William R., B.A., M.D., Associate, RMC and Assistant Attending, PSLH
 Gasteyer, Theodore H., II, A.B., M.D., Assistant Professor, RMC, CH
 Gdalmann, Louis, B.S., Ph.D., Emeritus Professor, RMC and Emeritus, PSLH (also Pharmacology)
 Gewurz, Henry, A.B., M.D., Professor, RMC and Senior Attending, PSLH (also Pediatrics and Immunology)
 Glickman, Paul B., Ph.D., M.D., Associate Professor, RMC and Senior Attending, PSLH
 Golden, Harvey E., B.A., M.D., Assistant Professor, RMC and Associate Attending, PSLH (also Immunology)
 Goldstein, Maurice S., M.D., Professor, RMC and Consultant, PSLH
 Gordon, Donald L., B.S., M.D., Associate Professor, RMC, MSHMC
 Graettinger, John S., M.D., Professor, RMC and Senior Attending, PSLH
 Gregory, Stephanie A., M.D., Associate Professor, RMC and Assistant Attending, PSLH
 Hahneman, Betty M., B.S., M.D., Associate Professor, RMC, MSHMC
 Handler, Jerome L., M.D., Assistant Professor, RMC, and Assistant Attending, PSLH
 Harris, Alan A., M.D., Assistant Professor, RMC and Assistant Attending, PSLH
 Harris, Jules E., M.D., Professor, RMC and Senior Attending, PSLH
 Hauser, Robert G., B.S., M.D., Assistant Professor, RMC and Assistant Attending, PSLH
 Hedblom, Carl A., A.B., M.D., Associate Professor, RMC and Senior Attending, PSLH
 Hegyvary, Csaba, M.D., Associate Professor, RMC and Associate Scientist, PSLH (also Physiology)

Heller, Paul, M. D., Visiting Professor, RMC and Consultant, PSLH

Hertko, Leonard J., M. D., Associate Professor, RMC and Associate Attending, PSLH

Heymann, Mark, B.S., M.D., Instructor, RMC, CDH

Hibbs, William G., M. D., Emeritus, RMC and Emeritus, PSLH

Highstone, William H., B.S., M. D., Emeritus, RMC and Emeritus, PSLH

Hoeltgen, Thomas M., B.A., M. D., Instructor, RMC and Assistant Attending, PSLH

Hoepfner, Walter F., B.S., M. D., Emeritus, RMC and Emeritus, PSLH

Horwitt, Max K., Ph. D., Visiting Professor, RMC and Consultant, PSLH

Hudson, Edsel K., B.S., M.D., Associate Professor, RMC and Senior Attending, PSLH (also Preventive Medicine)

Huss, Kathryn S., A.B., M.D., Instructor, RMC, MSHMC

Jamieson, Rodney A., B.S., M.D., Associate, RMC and Assistant Attending, PSLH

Jennings, John C., B.A., M.D., Assistant Professor, RMC and Assistant Attending, PSLH

Jenson, Donald M., B.S., M.D., Instructor, RMC and Adjunct Attending, PSLH

Johnson, Robert E., Ph. D., M. D., Visiting Professor, RMC and Consultant, PSLH

Jones, Frank W., A.B., M. D., Assistant Professor, RMC and Consultant, PSLH

Jones, John C., B.S., M. D., Instructor, RMC and Assistant Attending, PSLH

Jones, John Verrier, B.A., B.M., B.Ch., F.R.C.P., Professor, RMC and Senior Attending, PSLH

Jones, Philip N., M. D., Professor, RMC and Senior Attending, PSLH

Jupa, James E., B.S., M. D., Assistant Professor, RMC and Assistant Attending, PSLH

Kaganiec, Irene G., M. D., Associate Professor, RMC, CH

Kanamarlapudi, Narashimharo, M.S., Ph. D., Assistant Professor, RMC and Assistant Scientist, PSLH

Kang, Bann, B. A., M. D., Assistant Professor, RMC, MSHMC

Kark, Robert M., B.A., F.R.C.P., Professor, RMC and Senior Attending, PSLH

Kassriel, Robert S., A.B., M. D., Instructor, RMC and Assistant Attending, PSLH

Katz, Robert S., M. D., Assistant Professor, RMC and Adjunct Attending, PSLH

Kelly, Frank B., Jr., B.S., M. D., Associate Professor, RMC and Senior Attending, PSLH

Kelly, Frank B., Sr., B.S., M. D., Emeritus, RMC and Emeritus, PSLH

Keomuan, Poonsri, M. D., Instructor, RMC and Adjunct Attending, PSLH

Kesler, R., Lincoln, A.B., M. D., Associate Professor, RMC and Senior Attending, PSLH

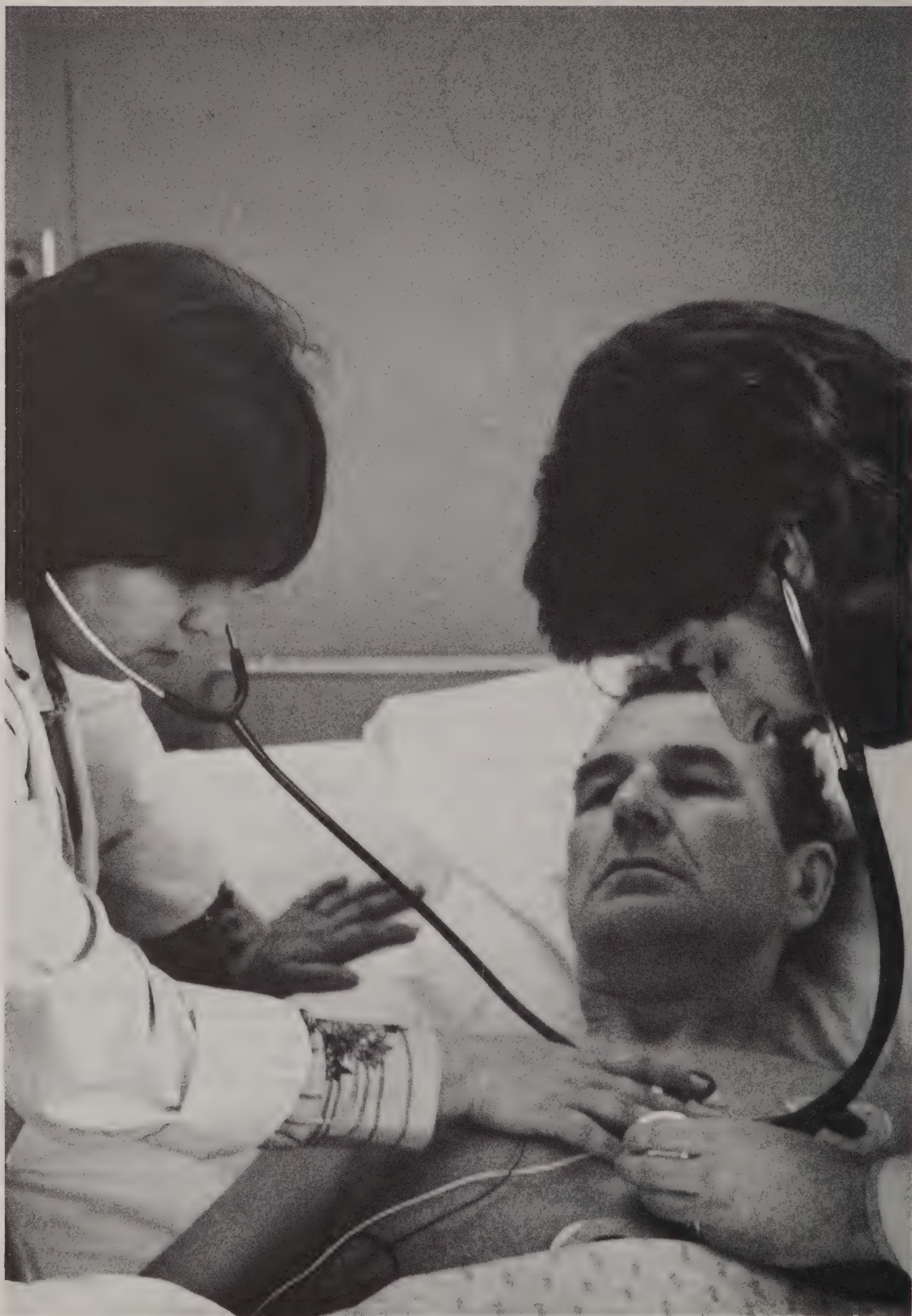
Kidera, George J., B.S., M. D., Professor, RMC, CMGH

Kinney, Janet, B.S., M. D., Emeritus, RMC and Emeritus, PSLH

Kirby, William J., M. D., Emeritus, RMC and Emeritus, PSLH

Kirkland, Wallace W., A.B., M. D., Associate Professor, RMC and Senior Attending, PSLH

Klinger, Alfred D., B.S., M.D., Associate, RMC and Senior Attending, PSLH (also Preventive Medicine)
 Knight, Raymond W., M.D., Instructor, RMC and Adjunct Attending, PSLH
 Knospe, William H., B.A., B.S., M.S., M.D., Professor, RMC and Senior Attending, PSLH
 Knott, A. Paul, Jr., A.B., M.D., Instructor, RMC and Adjunct Attending, PSLH
 Kofman, Sidney, M.D., Visiting Professor, RMC and Senior Attending, PSLH
 Kornel, Ludwig, Ph.D., M.D., Professor, RMC and Senior Attending PSLH (also Biochemistry)
 Krasnow, Sheldon E., B.S., M.D., Professor, RMC, WSH
 Laing, Grant H., M.D., Emeritus, RMC and Emeritus, PSLH
 Lee, Chang Ling, M.D., Professor, RMC, MSHMC (also Pathology)
 Lee, William K., B.A., M.D., Instructor, RMC, CDH
 Lepper, Mark H., B.A., M.D., Professor, RMC and Senior Attending, PSLH (also Preventive Medicine)
 Lev, Maurice, B.S., M.A., M.D., Distinguished Professor, RMC (also Pediatrics)
 Levin, Joel M., M.D., Assistant Professor, RMC and Adjunct Attending, PSLH
 Levin, Stuart, B.M., M.D., Associate Professor, RMC and Senior Attending, PSLH (also Microbiology and Preventive Medicine)
 Levine, Charlotte C., B.A., M.D., Instructor, RMC and Adjunct Attending, PSLH (also Preventive Medicine and Family Practice)
 Levine, Milton D., B.A., Sc.D., M.D., Associate Professor, RMC and Senior Attending, PSLH (also Preventive Medicine)
 Levitan, Ruven, M.D., Professor, RMC, SCH, WSH
 Lewis, Edmund J., B.S., M.D., Professor, RMC and Senior Attending, PSLH
 Lieblich, Jeffrey M., M.D., Instructor, RMC and Adjunct Attending, PSLH
 Liebson, Philip R., A.B., M.D., Associate Professor, RMC and Associate Attending, PSLH
 Lim, Toh Hoai, B.S., M.B.B.S., Instructor, RMC, SCH
 Lundy, Clayton J., B.S., M.S., M.D., Emeritus, RMC and Emeritus, PSLH
 Luskin, Allan T., M.D., Instructor, RMC, and Adjunct Attending, PSLH (also Immunology)
 Macleod, Catherine M., M.D., Assistant Professor, RMC and Assistant Attending, PSLH (also Pharmacology)
 Magana, Lilliam C., M.D., Instructor, RMC, MSHMC
 Mahan, Kathleen, B.S., M.S., Lecturer, RMC and CN
 Martin, John E., B.S., M.D., Instructor, RMC and Assistant Attending, PSLH
 Martin, Richard A., M.D., Instructor, RMC, MSHMC
 Martinez, Charles J., M.D., Assistant Professor, RMC, MSHMC
 Matthew, Guy R., B.A., M.D., Associate Professor, RMC and Senior Attending, PSLH (also Diagnostic Radiology)
 Mattis, Richard C., B.S., M.D., Instructor, RMC and Assistant Attending, PSLH
 McKenna, William W., B.S., M.D., Assistant Professor, RMC, CH
 McCreary, Patricia A., M.D., Associate Professor, RMC and Associate Attending, PSLH (also Preventive Medicine)



McFate, Patricia, Ph. D., Visiting Associate Professor, RMC and Consultant, PSLH

McKenna, Rajalaxmi, M. D., Assistant Professor, RMC and Assistant Attending, PSLH

McLeod, Bruce C., Assistant Professor, RMC and Assistant Attending, PSLH

McMillan, J. Charles, M. D., Emeritus, RMC, WSH

Medenis, Vidvuds, M. D., Assistant Professor, RMC and Assistant Attending, PSLH

Meredith, Paul A., A.B., M. D., Associate Professor, RMC and Assistant Attending, PSLH

Merkel, Frederick K., B.S., M. D., Associate Professor, RMC and Associate Attending, PSLH (also General Surgery and Immunology)

Merwick, Patricia A., B.S., M. D., Assistant Professor, RMC and Adjunct Attending, PSLH

Messer, Joseph V., A.B., M. D., Professor, RMC and Senior Attending, PSLH

Meyer, John H., M. D., Associate Professor, RMC and Assistant Attending, PSLH

Moneer, Yusef, M. D., Assistant Professor, RMC, CMGH

Moon, Byong H., B.S., M.S. Ph. D., Assistant Professor, RMC and Assistant Scientist, PSLH (also Pharmacology)

Moore, William A., M. D., Assistant Professor, RMC, CMGH

Morris, Arthur M., B.A., M. D., Instructor, RMC and Adjunct Attending, PSLH

Muehrcke, Robert C., B.S., M. D., Associate Professor, RMC and Consultant, PSLH, WSH

Muenster, Joseph J., M. D., Associate Professor, RMC and Senior Attending, PSLH (also Pediatrics)

Mullerheim, Kathleen B., B.S., M.A., Lecturer, RMC

Nathan, R. Deva, M. D., Instructor, RMC and Assistant Attending, PSLH

Neal, Richard H., A.A., M. D., Associate Professor, RMC, WSH

Nelson, Bertram G., B.S., M. D., Professor, RMC and Senior Attending, PSLH

Noble, Barbara W., B.S., M. D., Assistant Professor, RMC and Assistant Attending, PSLH (also Preventive Medicine)

Northrop, Gretajo, B.S., M.S., Ph. D., M. D., Assistant Professor, RMC and Assistant Attending, PSLH (also Obstetrics and Gynecology)

O'Brien, Donald E., A.B., M. D., Associate Professor, RMC and Associate Attending, PSLH

O'Brien, John F., B.S., M. D., Associate Professor, RMC, CH

O'Donoghue, John K., B.S., M. D., Assistant Professor, RMC, WSH

Oyama, Joseph H., B.S., M. D., Assistant Professor, RMC and Assistant Attending, PSLH, CH

Parsons, Robert L., M. D., Visiting Assistant Professor, RMC and Adjunct Attending, PSLH

Passovoy, Robert D., B.S., M. D., Instructor, RMC and Adjunct Attending, PSLH

Payne, John A., B.S., M. D., Assistant Professor, RMC and Assistant Attending, PSLH

Peterson, Arthur R., M. D., Associate, RMC, SCH

Phelan, William H., B.S., M. D., Associate Professor, RMC and Senior Attending, PSLH

Pierce, Mila I., M.D., Distinguished Professor, RMC and Consultant, PSLH (also Pediatrics)

Pomerantz, Rhoda S., A.B., M.D., Associate Professor, RMC and Associate Attending, PSLH (also Preventive Medicine)

Ponsiglione, John D., B.S., M.D., Instructor, RMC and Assistant Attending, PSLH

Post, John, M.D., Visiting Assistant Professor, RMC and Emeritus, PSLH

Powers, Richard J., B.S., M.D., Assistant Professor, RMC and Associate Attending, PSLH (also Pharmacology)

Prancan, Arthur V., B.S., Ph.D., Assistant Professor, RMC and Assistant Scientist, PSLH (also Pharmacology)

Puray, Milagros D., M.D., Assistant Professor, RMC, MSHMC

Ramsey, Michael M., M.D., Assistant Professor, RMC and Assistant Attending, PSLH

Reid, Robert H., A.B., M.D., Assistant Professor, RMC and Assistant Attending, PSLH

Rennie, I. Drummond, M.B., M.D., Associate Professor, RMC and Associate Attending, PSLH

Reynolds, Robert E., B.A., M.D., M.P.H., Dr.P.H., Professor, RMC and Senior Attending, PSLH

Riff, Donald P., M.D., Assistant Professor, RMC and Assistant Attending, PSLH

Roberts, Jimmy L., A.B., M.D., Assistant Professor, RMC and Assistant Professor, PSLH

Rosenberg, Marvin S., B.S., M.D., Associate Professor, RMC and Senior Attending, PSLH

Rosenblate, Howard J., B.A., M.D., Assistant Professor, RMC and Consultant, PSLH

Roskelly, Rigby C., B.S., M.D., Professor, RMC and Senior Attending, PSLH

Rossof, Arthur H., M.D., Assistant Professor, RMC and Assistant Attending, PSLH

Rotenberg, Morry L., B.Sc., M.D., Instructor, RMC and Adjunct Attending, PSLH

Ryan, Will G., M.D., Associate Professor, RMC and Senior Attending, PSLH

Santucci, Barbara, B.A., M.D., Assistant Professor, RMC and Assistant Attending, PSLH (also Pediatrics)

Sassetti, Richard J., M.D., Assistant Professor, RMC and Senior Attending, PSLH

Scheiner, David L., B.A., M.D., Assistant Professor, RMC and Assistant Attending, PSLH (also Preventive Medicine)

Schick, Armin F., M.D., Visiting Assistant Professor, RMC and Consultant, PSLH

Schoenberger, James A., B.S., M.D., Professor, RMC and Senior Attending, PSLH (also Preventive Medicine)

Schuessler, Roger R., M.D., Assistant Professor, RMC and Senior Attending, PSLH

Schwartz, Theodore B., B.S., M.D., Professor, RMC and Senior Attending, PSLH

Scupham, William K., A.B., M.D., Assistant Professor, RMC and Consultant, PSLH

Shallat, Charles H., B.S., M.D., Assistant Professor, RMC and Assistant Attending, PSLH

Sharon, Zeev, M.D., Assistant Professor, RMC and Assistant Attending, PSLH

Showel, John L., B.S., M.D., Assistant Professor, RMC and Assistant Attending, PSLH
 Silins, Vitolds R., M.D., Assistant Professor, RMC and Associate Attending, PSLH
 Slayton, Robert E., B.S., M.D., Associate Professor, RMC and Senior Attending, PSLH
 Smith, Earl C., B.S., M.D., Associate Professor, RMC, MSHMC
 Snapp, Marshall, B.A., M.D., Associate, RMC and Assistant Attending, PSLH
 Sokalski, Steven J., B.S., D.O., Visiting Associate Professor, RMC and Consultant, PSLH
 Sokol, Norton M., B.A., M.D., Assistant Professor, RMC, MSHMC
 Somberg, Alvin, B.A., M.D., Assistant Professor, RMC, SCH
 Stamler, Jeremiah, M.D., Visiting Professor, RMC and Consultant, PSLH
 Stavinga, Ronald F., M.D., Instructor, RMC and Adjunct Attending, PSLH
 Stuppy, George W., B.S., M.S., Ph.D., M.D., Emeritus, RMC and Senior Attending, PSLH
 Susmano, Armando, M.D., Associate Professor, RMC and Associate Attending, PSLH, MSHMC
 Tarun, Donald W., B.A., B.S., M.D., Associate Professor, RMC and Senior Attending, PSLH
 Tarzynski, Marian S., M.D., Assistant Professor, RMC and Associate Attending, PSLH
 Tausk, Kasriel, M.D., Assistant Professor, RMC and Senior Attending, PSLH
 Taylor, Samuel G., III, A.B., M.D., Emeritus, RMC and Emeritus, PSLH
 Thompson, Ray E., B.A., M.D., Assistant Professor, RMC, GCH
 Thomson, Andrew, B.S., M.D., Associate Professor, RMC and Senior Attending, PSLH
 Thomson, Cameron, B.S., M.D., Instructor, RMC and Adjunct Attending, PSLH
 Tolchin, Nathan, B.A., D.O., Assistant Professor, RMC and Assistant Attending, PSLH
 Toman, Maralyn E., B.S., M.D., Instructor, RMC, MSHMC
 Trenholme, Gordon M., M.D., Assistant Professor, RMC and Assistant Attending, PSLH (also Pharmacology)
 Trobaugh, Frank E., Jr., B.A., M.D., Professor, RMC and Senior Attending, PSLH
 Trubitt, Michael J., M.D., Assistant Professor, RMC, MSHMC
 Tucker, W. Randolph, A.B., M.D., Associate Professor, RMC and Associate Attending, PSLH
 Twiss, Alston C., B.A., M.D., Associate Professor, RMC and Assistant Attending, PSLH
 Tyszka, Thomas S., M.D., Assistant Professor, RMC and Assistant Attending, PSLH
 Van Valen, Phebe, B.S., M.A., Ph.D., Lecturer, RMC
 Wakefield, Howard, S.B., M.D., Emeritus, RMC and Emeritus, PSLH
 Wang, Timothy, M.B.B.S., Assistant Professor, RMC, MSHMC
 Waxman, Jordan, B.S., M.D., Assistant Professor, RMC and Assistant Attending, PSLH (also Neurological Sciences)
 Weens, Joan H., M.D., Assistant Professor, RMC and Assistant Attending, PSLH

Weller, Herschel, M.D., Instructor, RMC, MSHMC
 Werner, Peter, M.D., Assistant Professor, RMC and Assistant Attending, PSLH
 Westerman, Maxwell P., B.A., M.D., Professor, RMC, MSHMC
 Wing, Herman, B.A., M.D., Professor, RMC, CH
 Winter, Paul L., B.S., M.D., Associate Professor, RMC and Senior Attending, PSLH
 Wolfe, Charles K., A.B., M.D., Associate Professor, RMC and Senior Attending, PSLH
 Wolter, Janet, A.B., M.D., Associate Professor, RMC and Senior Attending, PSLH
 Wong, Paul W., M.D., MSc., Professor, RMC and Senior Attending, PSLH (also Pediatrics)
 Wood, Willard L., M.S., M.D., Emeritus, RMC and Emeritus, PSLH
 Wu, Kenneth, M.D., Associate Professor, RMC and Associate Attending, PSLH
 Yellen, Harry J., B.S., M.D., Assistant Professor, RMC, MSHMC
 Zeitz, Howard J., M.D., Assistant Professor, RMC and Assistant Attending, PSLH (also Immunology)
 Zitnik, Ralph S., B.S., M.D., Associate Professor, RMC and Associate Attending, PSLH

The Department of Internal Medicine provides an integrated program of postdoctoral residency training that consists of a one-year internship and two subsequent years of residency. An additional year of advanced training with teaching responsibility and an adjunct medical staff appointment is offered in a chief residency.

The internship year is structured to provide intensive patient contact, utilizing some 300 medical beds divided into six general medical units, a medical intensive care unit, and a surgical intensive care unit. This year is divided into four two-month rotations on general medical units, which have from 30 to 47 patients. Most general medical units are staffed by two residents, four medical interns, and several Rush Medical College students. One month is devoted to medical and one month to surgical intensive care experience. A final two-month period is allotted to elective study, which may be taken in any medical or surgical subspecialty, or in pediatrics, psychiatry, or neurology.

In the second year, a resident spends six months on a general medical unit, has two months of emergency room-triage experience, and spends the remainder on elective services.

The third-year resident spends one to three two-month rotations on a general medical unit and the rest of the year in the subspecialty areas of his or her choice. Throughout the training period, each medical house officer is assigned one-half day a week to an outpatient medical practice. This continuing assignment provides the physician with the opportunity to provide long-term care.

With the expansion of Rush-Presbyterian-St. Luke's Medical Center to include affiliated network hospitals, the department has expanded its training potential to include medical unit experience in a community hospital setting. House officers may spend limited periods of time at affiliated institutions with approved programs in internal medicine including, at present, Christ Hospital and Mount Sinai Hospital Medical Center. Moreover, the refurbished Sheridan Road Pavilion, an integral part of Rush-Presbyterian-St. Luke's Medical Center, provides 80 general medical beds in a community

hospital. The house staff education program there is under the direction of a newly appointed assistant chairman of internal medicine and is integrated with the house staff training program at Presbyterian-St. Luke's Hospital. These activities have added depth in primary patient care experience.

The Department of Internal Medicine schedules regular teaching sessions, including medical grand rounds, attending and chairman's rounds, weekly subspecialty rounds, morbidity and mortality conferences, and radiologic conferences, as well as seminars and lectures by staff and by visiting professors of medicine.

The chief residents run interns grand rounds each Saturday morning, and provide formal conferences on the wards each week. A vigorous program of education is provided in the ambulatory care facilities of the department.

Individualization of programs is encouraged and other postgraduate programs are available, including elective rotations through ear, nose, and throat (ENT), office gynecology, ophthalmology, and psychiatry for internists. Further intensive care experiences beyond the residency are available in the clinical and research fellowships offered by the various sections.

In accordance with Section 709 of the Public Service Act Rush-Presbyterian-St. Luke's Medical Center will, upon request from qualified applicants, offer shared schedule residency programs in internal medicine. These programs will be designed by the department in consultation with the candidates making the request.

Section of Cardiology

Messer, Joseph V., M.D., Director

Aggarwal, Keshav, M.D.

Battle, William E., M.D.

Chhablani, Ramesh, M.D.

Clark, James G., M.D.

Codini, Michele A., M.D.

Colandrea, Michael A., M.D.

Coleman, Henry N., M.D.

Deane, Louis V., Jr., M.D.

Denes, Pablo, M.D.

Eybel, Carl E., M.D.

Hauser, Robert G., M.D.

Hegyvary, Csaba, M.D.

Liebson, Philip R., M.D.

Muenster, Joseph J., M.D.

O' Donovan, Thomas Paul B., M.D.

Riff, Donald P., M.D.

Rosenberg, Marvin S., M.D.

Ruggie, Neal T., M.D.

Susmano, Armando, M.D.

Tyszka, Thomas S., M.D.

Zitnik, Ralph S., M.D.

Dow, James W., M.D., Consultant

Graettinger, John S., M.D., Consultant

Schoenberger, James A., M.D., Consultant

The Section of Cardiology provides consultation and diagnostic services for patient care, teaches medical students and postgraduates, and conducts research studies.

Medical residents are assigned patients whom they evaluate with the attending physicians. Emphasis is placed on objective evaluation of cardiac physiology.

The cardiology fellows supervise hemodynamic monitoring and cardiac care in the Medical Intensive Care Unit and perform diagnostic cardiac catheterization in the Cardiac Catheterization Laboratory. They evaluate cardiac graphics data and also undertake clinical laboratory investigative studies.

The section conducts research on the natural history of cardiac disease, quantification of ventricular function by invasive and noninvasive techniques, application of electrophysiologic principles to the study of man, and diagnosis and modification of the hemodynamic abnormalities.

The section conducts formal teaching exercises in cardiology, consultation rounds, and daily cardiac reports.

Cardiology fellowships are available upon completion of three years of postgraduate training in internal medicine. At the successful conclusion of two years of cardiology fellowship, the applicants will be board-eligible in the subspecialty of cardiovascular diseases.

Section of Digestive Diseases

Payne, John A., Acting Director

Liver Unit

Payne, John A., M.D., Director

Jensen, Donald M., M.D.

Medical residents who choose to have experience in the Liver Unit see patients in consultation and, after appropriate training, perform liver biopsies when indicated. They may also take an active part in clinical or basic research. Formal teaching activities include hepatology rounds, liver biopsy study sessions, and a weekly hepatology-gastrointestinal pathology conference.

Research is primarily oriented to the study of the etiology and pathogenesis of human viral hepatitis. Other areas of interest include the treatment and pathogenesis of chronic active hepatitis, primary biliary cirrhosis, and the effects of drug use, drug and alcohol addiction, and the significance of liver cell membrane alterations in acute and chronic liver disease.

Fellowships are available in the unit for individuals who have completed two years of medical residency. The fellowship is designed primarily to develop competence in clinical and basic research.

Gastrointestinal Unit

Franklin, James L., M.D., Acting Director

Markey, William, M.D.

Ponsiglione, John, M.D.

The Gastrointestinal Unit provides consultation for patients with diseases of the gastrointestinal tract, specialized diagnostic laboratory and clinical procedures, and formal and informal teaching of house staff and medical students in gastrointestinal disease.

Medical residents see patients requiring consultation and participate in endoscopic and other diagnostic procedures.

Section of Endocrinology and Metabolism

Schwartz, Theodore B., M.D., Director

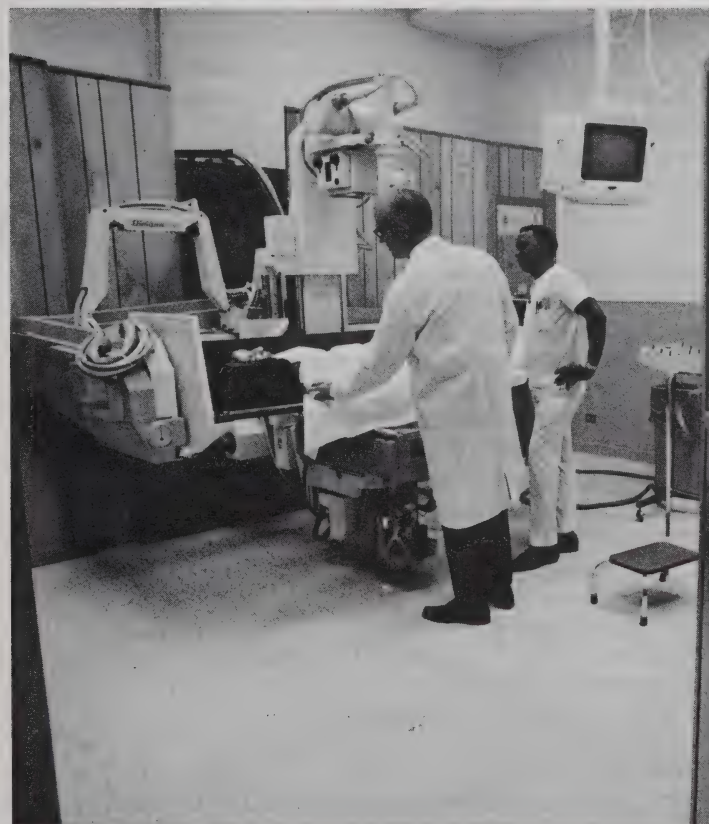
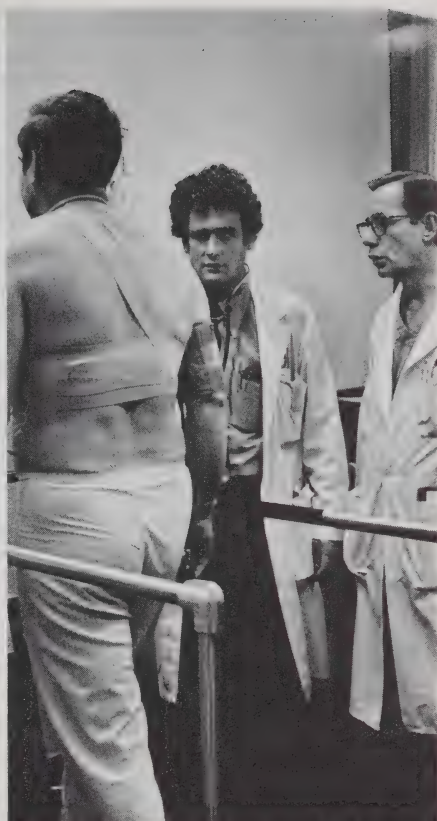
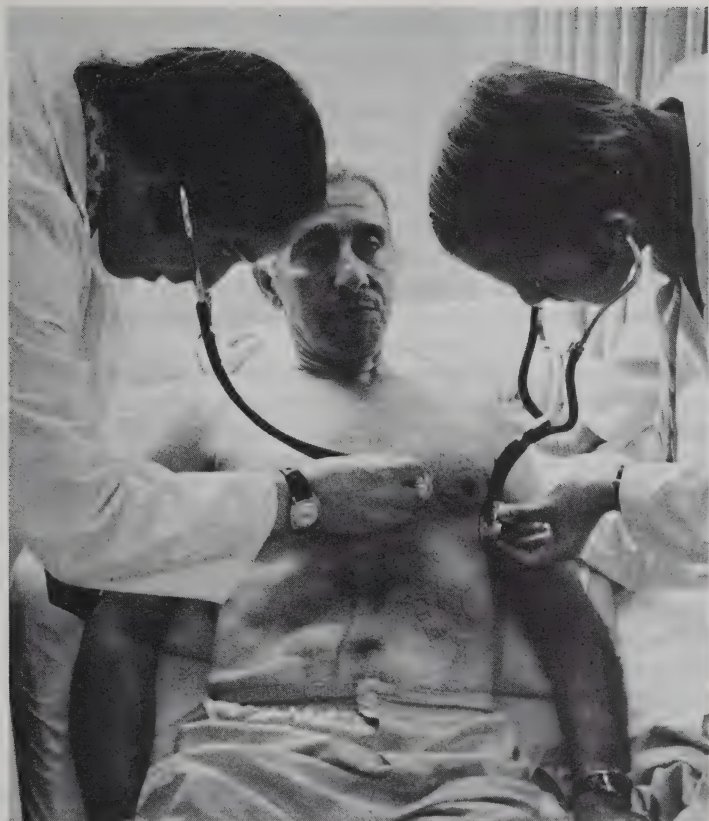
Ryan, Will G., M.D., Associate Director

Garland, John T., M.D.

Jennings, John C., M.D.

Kornel, Ludwig, M.D., Ph.D.

Northrop, Gretajo, M.D., Ph.D.



The Section of Endocrinology and Metabolism takes a broad yet intensive approach to clinical investigative and laboratory aspects of the discipline. In addition to providing consultations for patients, the section maintains a clinical endocrinology laboratory to perform serum thyroxine, T3 uptake, thyroid-stimulating hormone, insulin, growth hormone, parathyroid hormone, and a variety of serum lipid determinations.

There is active research on diabetes, somatomedin, metabolic bone disease, and disorders of growth. The steroid unit of the section performs determinations of serum and urinary steroids of various types and conducts a research program on steroid metabolism in essential hypertension.

The teaching program is active at all levels. In addition to regularly scheduled endocrinology conferences, the section accepts four medical students during the alternate quarter, one clinical and research fellow who functions for a minimum of two years, and one or two medical residents who rotate through the section at two-month intervals.

Section of Geriatrics

Pomerantz, Rhoda S., M.D., M.P.H., Director

Fox, Jacob H., M.D.

The Section of Geriatrics has been concerned primarily with the continuing development of the Johnston R. Bowman Health Center for the Elderly (JRB), a comprehensive restorative care and residential facility on the Medical Center campus. The clinical staff reflects the multidisciplinary nature of restorative care for the elderly, and, in addition to a wide variety of paraprofessionals, includes physicians trained in psychiatry, neurology, and physical medicine and rehabilitation.

In order to bring community-based care closer to the elderly recipient, outpatient activities are conducted at Bowman, the Sheridan Road Pavilion, and at a community outpatient facility at the William Jones Senior Citizens Apartments.

Research activities have been directed to the identification of treatable conditions in elderly patients who present with dementia, and to the correlation of findings on computerized axial tomography and clinical patient observation. Other projects include an in-depth study of the process of institutionalization and development of a protocol for program evaluation at JRB.

Johnston R. Bowman is the clinical site for undergraduate and graduate nursing students in the geriatric/gerontologic master's program. A rotation for undergraduate and graduate medical education is offered. A director of geriatric medical education is being recruited in order to expand the educational program.

Section of Clinical Hematology

Knospe, William, H., Director

Adler, Solomon, M.D.

Frischer, Henri, M.D., Ph.D.

Gregory, Stephanie A., M.D.

McKenna, Rajalaxmi, M.D.

Pierce, Mila I., M.D.

Sassetti, Richard J., M.D.

Showel, John, M.D.

Weens, Joan, M.D.

Wu, Kenneth K., M.D.

The Section of Clinical Hematology has responsibility for clinical areas of hematologic malignancies, anemias, coagulation disorders,

immunohematology, and nonmalignant leukocyte disorders. Teaching activities include daily hospital teaching rounds. Weekly conferences include patient-oriented clinical conferences, seminars on clinical and basic science topics in hematology, marrow morphology conferences, lymphoma and tumor conferences, and clinical coagulation conferences. A Phase II undergraduate organ system course in hematology is offered yearly. Electives in hematology are offered to Phase III medical students. The training of fellows in clinical and laboratory aspects of academic hematology is conducted collaboratively with the Section of Laboratory Hematology under a training grant from the National Institutes of Health.

Research in the sections of hematology includes: (1) ^{52}Fe studies of radiation-induced marrow and studies in bone marrow distribution in patients with hemopoietic disorders; (2) cytogenetic studies of marrow cells in leukemia; (3) studies of new chemotherapies in leukemia, multiple myeloma, and lymphoma (these studies are conducted in cooperation with the Southeastern Cancer Chemotherapy Group, which is concerned with the development of more effective therapy of malignancies); (4) studies of the classification of chronic lymphocytic leukemia (CLL) using microscopy, electron microscopy, immune function, and surface immunoglobulin, and receptors characteristics of CLL cells (these parameters will be correlated with response to therapy achievement of complete remission and survival); and (5) platelet function in

Section of Laboratory Hematology

Trobaugh, Frank E., Jr., M.D., the Elodia Kehm Director of Hematology

Adler, Solomon S., M. D.

Bacus, James W., Ph. D.

Cole, Edmund R., Ph. D.

Frischer, Henri, M. D., Ph. D.

McLeod, Bruce G., M. D.

McKenna, Rajalaxmi, M. D.

Sasseti, Richard J., M. D.

Wu, Kenneth K., M. D.

The Section of Laboratory Hematology provides the necessary laboratory information to establish diagnoses and provide hematologic measurements for all Medical Center patients. Included in this section is the Blood Bank, which provides full-service blood-banking; including provision of various component therapies and frozen blood. The Clinical Hematology Laboratory is highly automated and includes a dedicated interactive computer to assist in expediting the reporting of results. Residents in medicine and pathology as well as postdoctoral students in biomedical engineering pursue their training in these laboratories.

In addition to all standard procedures for counting and identifying blood cells, many highly sophisticated diagnostic hematology and coagulation laboratory procedures are regularly available.

Some of the continuing research efforts in the sections of hematology include studies of factors that regulate the numbers and differentiation of hemopoietic stem cells in normal mice, in mice treated with ^{89}Sr , and RFM mice with myeloid leukemia; studies of several models designed to measure the capacity of hemopoietic stromal tissue to support hemopoiesis; and studies to evaluate the type, extent, and duration of damage inflicted by a number of chemotherapeutic agents and various doses of radiotherapy in hemopoietic stromal tissues.



**Section of
Infectious Disease**

Levin, Stuart, M.D., Director

Harris, Alan A., M.D.

Jupa, James E., M.D.

Trenholme, Gordon M., M.D.

The Section of Infectious Disease provides consultation for patients with infectious diseases. It is responsible for continuous surveillance of infections and appropriate preventive activities in all areas of the hospital.

The teaching activities of the section include daily formal and informal consultative rounds. A weekly three-hour research and case discussion conference is held.

The investigative activities of the section presently concern (1) the study of the epidemiology and control of infections acquired during hospitalization (in this study, the hospital surveillance team's data are a major resource); (2) clinical pharmacological and efficacy studies of antibacterial chemotherapy; (3) studies on the evolution of antibiotic-resistant organisms; and (4) the development of rapid methods of identification of etiologic agents of infection. Members of the section serve as consultants to the City of Chicago Department of Health and are involved with rabies control as well as investigations of citywide outbreaks of measles, diphtheria, and meningitis.

**Section of
Nephrology**

Lewis, Edmund J., M.D., Director

Eagen, Jeremiah W., M.D.

Roberts, Jimmy L., M.D.

Sharon, Zeev, M.D.

Tolchin, Nathan, D.O.

Kark, Robert, M.D., Consultant

Patients with hypertension, diseases of the kidneys and genitourinary tract, or electrolyte and metabolic problems are studied by the staff of the nephrology section. The laboratories of the unit are available for many special studies, including immunological investigations of serum and biopsy material. There are active acute and chronic dialysis programs. Patients with chronic intermittent dialysis or transplantation are cared for by the staff of the section; metabolic aspects of hemodialysis are being investigated in the latter patients. Close associations exist with the departments of pathology, surgery, urology, radiology, and preventive medicine in teaching, patient care, and research. The section is pursuing active research on immunological aspects of renal disease, with immune-complex-mediated diseases and cryoglobulinemia a particular focus of interest.

There are daily clinical conferences with the renal pathologists to review tissues from patients who have had renal biopsies. Each week there are regular research meetings, a renal pathology conference, a renal-urologic-radiologic conference, and a nephrology conference.

Members of the resident staff are assigned to the section for two months at a time, and research fellowships are available at the end of the second year of residency training. Applications for fellowships should be made to the director of the section.

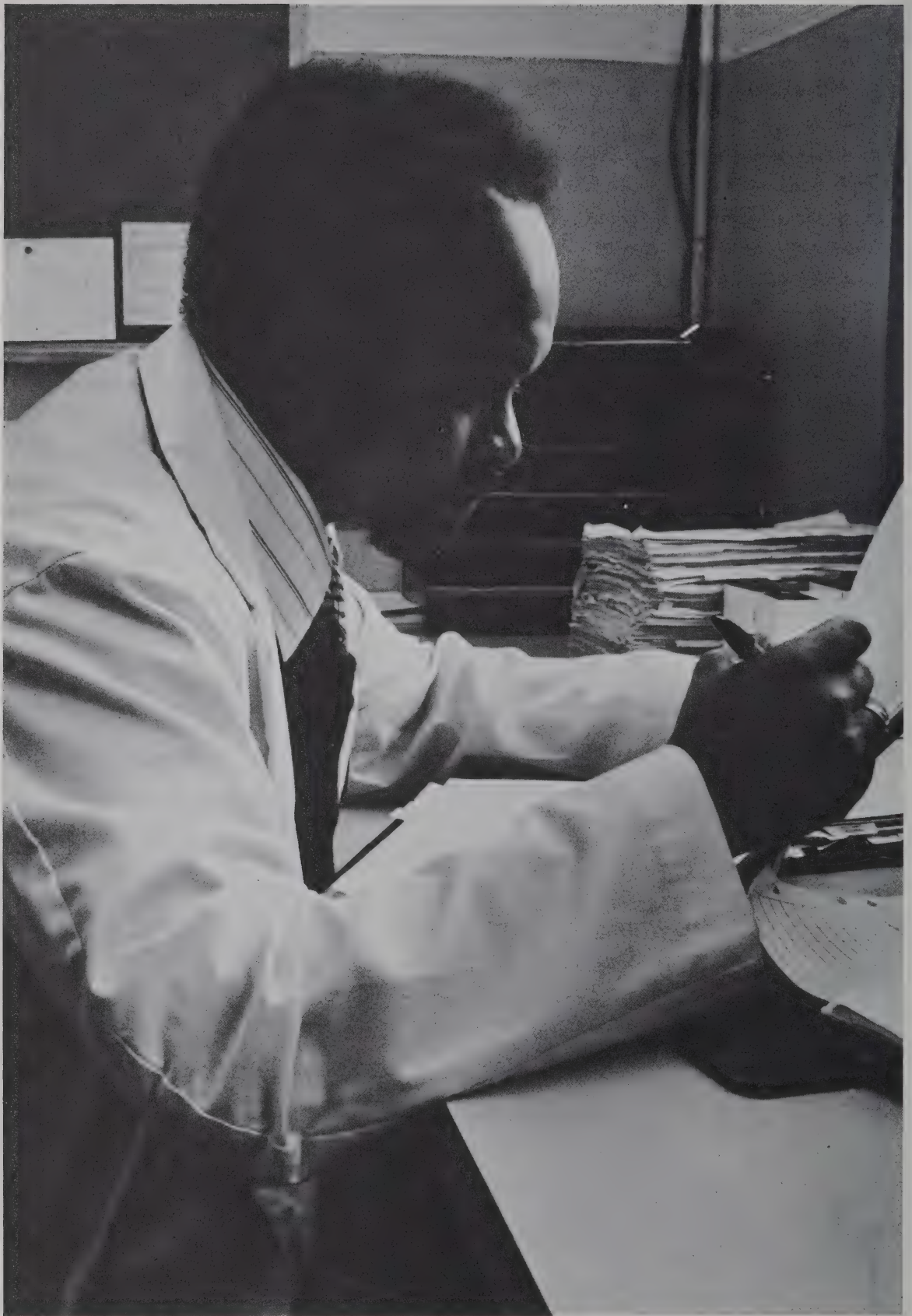
Section of Oncology

Harris, Jules E., M.D., Director

Anderson, Kenning, M.D.

Bonomi, Philip, M.D.

Hoeltgen, Thomas, M.D.



Rossof, Arthur H., M.D.
Showel, John, M.D.
Slayton, Robert, M.D.
Wolter, Janet, M.D.
Taylor, Samuel G. III, M.D., Consultant

The educational program of the Section of Oncology emphasizes that patients with cancer may live long, productive, and useful lives if properly treated. Each year, the Section of Oncology sees 1,200 new cancer patients, who provide an ample and varied spectrum of oncological problems. The residents and fellows follow and study these patients under the direction of members of the section. New patients and problems are discussed at biweekly meetings.

The section's program stresses the importance of a combined approach to tumor therapy using the resources of the departments of surgery, radiotherapy, pathology, and nuclear medicine.

There are weekly breast, tumor, lymphoma, and gynecologic tumor conferences, which are working examples of the section's interdisciplinary approach. The section is also involved in many of the clinical trials sponsored by the Eastern Cooperative Oncology Group, National Surgical Adjuvant Breast Project, and the Gynecologic Oncology Group.

A four- to eight-week rotation stressing clinical aspects of cancer is offered for interns and residents.

One- or two-year clinical fellowships are available and provide in-depth training in medical oncology, with rotation through related clinical fields and laboratories if desired. The program is designed to prepare the fellow for board certification in medical oncology. Application should be made to the director of the section.

Section of Pulmonary Medicine

Carton, Robert W., M.D., Director
Carasso, Ben, M.D.
Frownfelter, Donna, B.A., R.R.T., R.P.T.
Werner, Peter, M.D.

The Section of Pulmonary Medicine consists of the Pulmonary Function Laboratory, the Respiratory Therapy Department, and the Chest Physical Therapy Department. Clinically, it is concerned with both acute and chronic diseases related to the lungs and is closely integrated with the thoracic sections of surgery, radiology, and pathology. Senior clerkships, elective intern rotations, resident rotations, and fellowships are available. House officers and students receive exposure to pulmonary physiology, interpretation of pulmonary function tests, ventilator and blood gas management, bronchial hygiene, a wide variety of chest diseases, bronchoscopy, and, where appropriate, rehabilitative techniques in chronic lung disease. There are regularly scheduled multidisciplinary conferences held both within the Medical Center and with other universities in Chicago, and teaching opportunities are available at student, therapist, house officer, and fellow levels.

Section of Rheumatology

**Jones, John Verrier, B.A., B.M., B.Ch., F.R.C.P., the Willard Wood
Director**

A teaching program in rheumatology at a student and postgraduate level has been developed in collaboration with a group of clinical rheumatologists. The students participate in the consultative and clinical services of the Section of Rheumatology, whose research interests include the diagnosis and management of the vasculitic diseases and of systemic lupus erythematosus (SLE).

The interests of this department are closely linked with those of the Department of Immunology. There is an active outpatient service in rheumatoid arthritis and SLE.

**Department of
Neurological Sciences**

**Cohen, Maynard, M.D., Ph.D., the Jean Schweppe Armour
Chairman of Neurology**
Bailey, Orville, B.A., M.D., Visiting Professor, RMC and
Consultant, PSLH
Bergen, Donna, B.A., M.D., Assistant Professor, RMC and
Assistant Attending, PSLH
Berger, Victor P., B.A., M.D., Instructor, RMC
Bruetman, Martin E., B.A., M.D., Professor, RMC
Cohen, Maynard M., B.S., M.D., Ph.D., Professor, RMC and
Senior Attending, PSLH
Davis, Floyd A., B.S., M.D., Professor, RMC and Senior
Attending, PSLH
DeToledo, Leyla, B.A., M.A., Ph.D., Associate Professor, RMC
Eytan, Serge, M.D., Assistant Professor, RMC
Fisher, Morris A., B.A., M.D., Associate Professor, RMC and
Associate Attending, PSLH
Fox, Jacob H., M.D., Associate Professor, RMC and Associate
Attending, PSLH (also Internal Medicine)
Frost, Thomas M., B.S., M.D., Instructor, RMC and Adjunct
Attending, PSLH
Garcia, Horatio, M.D., Assistant Professor, RMC
Garvin, John S., B.A., M.D., Visiting Professor, RMC and Senior
Attending, PSLH (also Psychiatry)
Goetz, Christopher, M.D., Instructor, RMC and Adjunct
Attending, PSLH
Grossman, Herbert J., B.S., M.D., Professor, RMC and Senior
Attending, PSLH (also Pediatrics)
Harrison, William H., B.S., M.S., Ph.D., Professor, RMC (also
Biochemistry)
Hartmann, J. Francis, A.B., Ph.D., Professor, RMC and Senior
Emeritus Scientist, PSLH
Herba, Edward J., M.D., Assistant Professor, RMC and Assistant
Attending, PSLH
Hoeppner, Thomas J., B.S.C., M.A., Ph.D., Assistant Professor,
RMC
Hoskin, Francis C. G., B.A., M.A., Ph.D., Visiting Professor,
RMC
Huckman, Michael S., B.A., M.D., Associate Professor, RMC and
Associate Attending, PSLH (also Diagnostic Radiology)
Kessler, Elizabeth, B.A., M.D., Instructor, RMC and Assistant
Attending, PSLH
Klawans, Harold L., M.D., Professor, RMC and Senior Attending,
PSLH
Kramer, Jeffrey, M.D., Instructor, RMC and Adjunct Attending,
PSLH
Melyn, Michelle, B.A., M.D., Assistant Professor, RMC and
Assistant Attending, PSLH (also Pediatrics)
Michael, Joel A., B.S., M.S.C., Ph.D., Associate Professor, RMC
(also Physiology)
Morrell, Frank, B.A., M.S., M.D., Professor, RMC and Senior
Attending, PSLH
Nausieda, Paul A., B.S., M.D., Assistant Professor, RMC and
Assistant Attending, PSLH

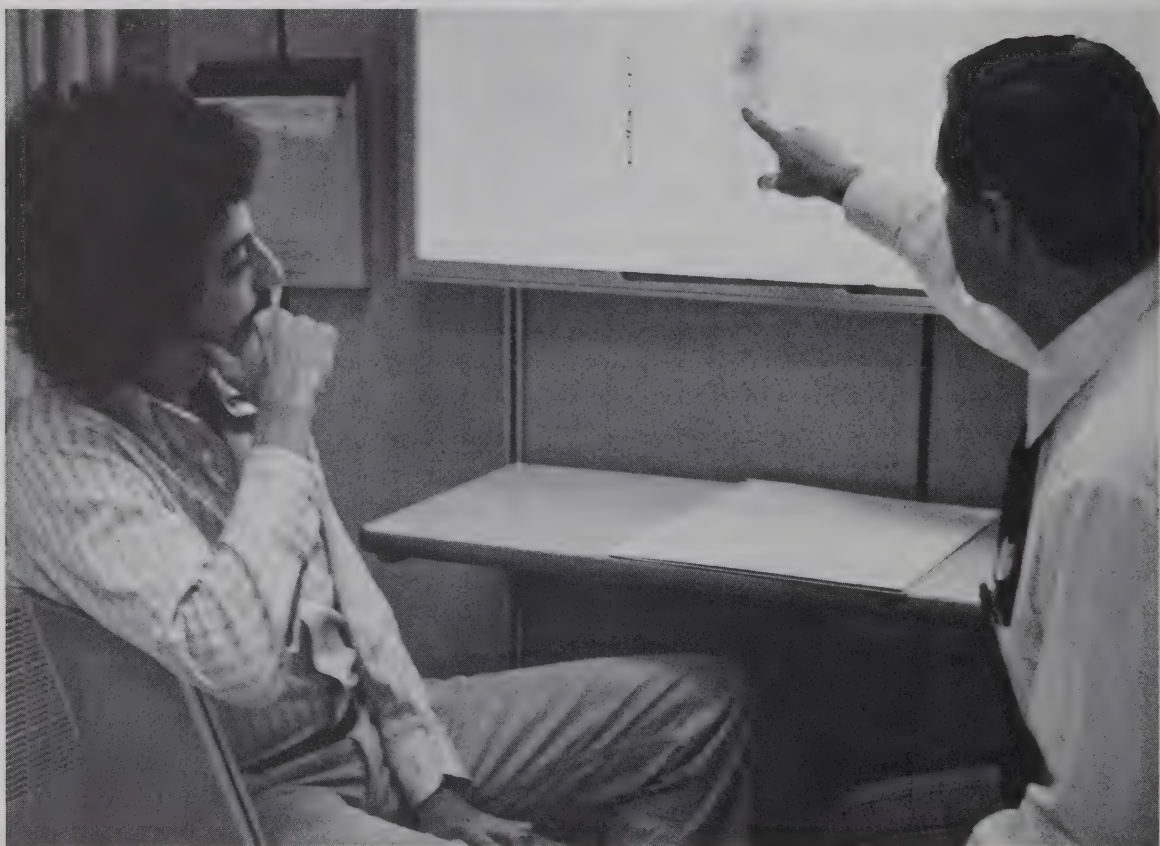
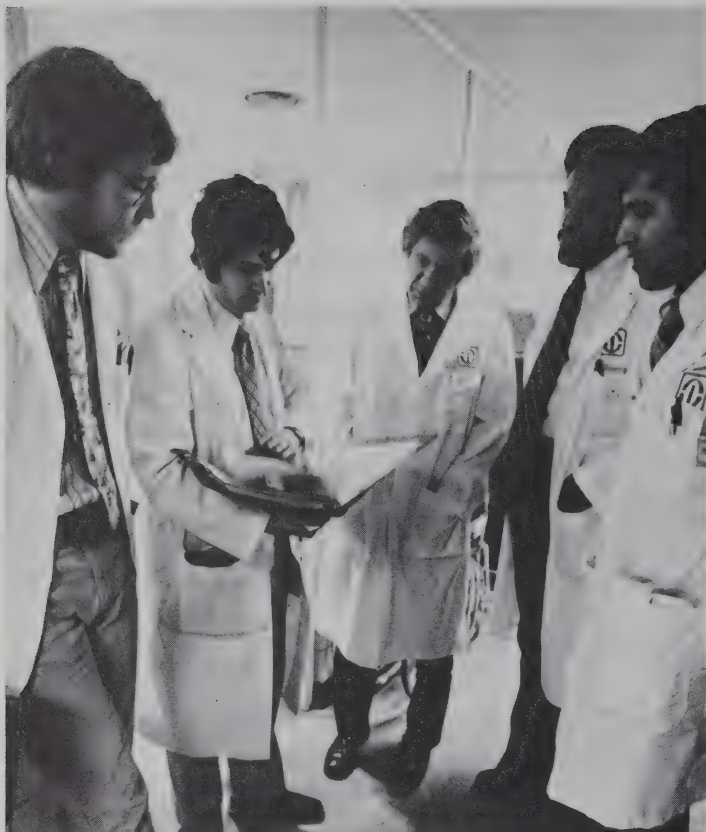
Neer, David D., B.S., M.D., Assistant Professor, RMC and Assistant Attending, PSLH
 Page-El, Edward, B.S., M.D., Assistant Professor, RMC and Assistant Attending, PSLH (also Pediatrics)
 Pavlou, Marcia, B.A., M.A., Ph.D., Assistant Professor, RMC and Assistant Scientist, PSLH (also Psychology)
 Pencek, Terrence, Ph.D., Assistant Professor, RMC (also Physiology)
 Proske, Anthony, B.S., M.D., Instructor, RMC and Adjunct Attending, PSLH
 Reyes, Marcelino G., B.S., M.D., Assistant Professor, RMC
 Schauf, Charles L., S.B., Ph.D., Associate Professor, RMC (also Physiology)
 Shenker, David M., A.B., M.D., Assistant Professor, RMC and Assistant Attending, PSLH
 Shivde, Anuradha J., M.B.B.S., M.D., Assistant Professor, RMC and Assistant Attending, PSLH
 Stefoski, Dusan, M.D., Assistant Professor, RMC and Assistant Attending, PSLH
 Tanner, Carolyn, M.D., Instructor, RMC and Adjunct Attending, PSLH
 Tierney, GERALYN, Assistant, RMC
 Topel, Jordan L., M.D., Assistant Professor, RMC and Assistant Attending, PSLH
 Weiner, William J., B.S., M.D., Associate Professor, RMC and Associate Attending, PSLH
 Whisler, Walter, A.B., M.D., Ph.D., Professor, RMC and Senior Attending and Senior Scientist, PSLH (also Neurological Surgery)
 Wichter, Melvin, Instructor, RMC

The Department of Neurological Sciences is responsible for inpatient and outpatient neurological services, and offers both consultation and direct patient care. Training in neurology and related neurosciences is provided at the predoctoral and postdoctoral levels for undergraduates and house staff members.

The neurology residency training program is fully accredited. Two residents are appointed to the Department of Neurological Sciences each year. All residents have an opportunity to learn the fundamentals of clinical neurology in outpatient clinics and inpatient and consultation services. They have an opportunity to learn various special neurologic procedures, including spinal and cisternal puncture, neuroophthalmologic and neurootologic studies, electroencephalography, electromyography and pneumoencephalography, arteriography, and myelography.

The first year of the residency program is devoted to clinical services plus a rotation in electroencephalography. The second year consists of three-month full-time rotations in neuropathology, neuroradiology, and pediatric neurology, with optional rotations in neuroophthalmology, electromyography, etc. The senior year consists of a six-month rotation as senior resident and a six-month elective period that can be devoted to laboratory or clinical research or to more specialized clinical training.

Teaching exercises include weekly neurologic grand rounds, a neuropathology conference, basic science conference, psychiatric liaison conference, electroencephalogram conference, and neuroradiology conference.



A one-year fellowship is offered in the laboratory of electromyography. Another one-year fellowship is offered in the electroencephalography (EEG) laboratory. The EEG fellowship offers training in clinical EEG and evoked potentials, with the opportunity of clinical and/or basic research in electrophysiology.

Department of Nuclear Medicine

Fordham, Ernest W., M.D., Chairman

Ali, Amjad, M.B.B.S., Assistant Professor, RMC and Assistant Attending, PSLH

Fordham, Ernest W., B.S., M.D., Professor, RMC and Senior Attending, PSLH (also Diagnostic Radiology)

Rayudu, Garimella V., B.S., M.S., Ph.D., Associate Professor, RMC and Associate Scientist, PSLH

Turner, David A., B.A., M.D., Associate Professor, RMC and Associate Attending, PSLH (also Diagnostic Radiology)

The Department of Nuclear Medicine occupies a new 8,500 square foot facility with a large, modern radiopharmacy. The department has a variety of advanced diagnostic imaging devices, including five scintillation cameras (four stationary, one portable), two emission tomographic imaging systems, and one dual-probe rectilinear scanner. More than 12,000 imaging procedures are performed annually. A dedicated minicomputer is used for recording and processing dynamic studies.

Research activities have recently concentrated on three areas: application of signal detection theory to the evaluation of medical imaging tests; clinical evaluation of new nuclear cardiology procedures; and development of new radiopharmaceuticals for tumor and cardiac imaging.

The department currently offers a total of three postgraduate training positions in two categories. A residency in Nuclear Medicine is one of these programs. Following one year of training in radiology, internal medicine, or pathology, residents in the department spend two years studying all aspects of nuclear medicine. In addition to receiving broad experience with nuclear diagnostic imaging, residents spend three months in the departments of immunology and internal medicine studying the theoretical and practical aspects of radioligand assays as well as the clinical application of data derived from these techniques. Elective time may be taken in the Department of Radiology to study computed transmission tomography and ultrasound. This program is designed to qualify trainees to sit for the certification examination of the American Board of Nuclear Medicine. It has been approved by the Council on Medical Education of the American Medical Association.

A one-year fellowship in Nuclear Medicine is open to individuals who are currently in or have completed an approved Radiology residency. Trainees study all aspects of nuclear diagnostic imaging. Elective time may be taken in the Department of Radiology to study computed transmission tomography and ultra-sound. This program enables qualified trainees to sit for the Nuclear Radiology examination of the American Board of Radiology.

In addition to the above-mentioned programs, the department currently provides nuclear radiology training as part of two approved radiology residency programs.

Residents and fellows are encouraged to participate in the research activities of the department and are given ample opportunity to do so. Participation in research is not mandatory.

**Department of
Pediatrics**

**Christian, Joseph R., M.D., the Woman's Board Chairman of
Pediatrics**

Agarwala, Broiendran, M. D., Assistant Professor, RMC
Ahnadian, Yahya S., M. D., Assistant Professor, RMC
Allen, Richard R., B.S., M. D., Assistant Professor, RMC
Anthony, Paul K., B.S., M. D., Associate Professor, RMC
Arnecilla, Pablo B., A.A., M. D., Assistant Professor, RMC and
Assistant Attending, PSLH
Belkengren, Richard P., M. D., Instructor, RMC and Adjunct
Attending, PSLH
Beverly, Bert I., B.S., M. D., Assistant Professor, RMC
Bharani, Sakina, B.S., M. D., Assistant Professor, RMC and
Assistant Attending, PSLH
Bharati, Saroja, M. D., Assistant Professor, RMC
Biggs, Alfred D., A.B., M. D., Emeritus, RMC and Emeritus,
PSLH
Braun, Leonard L., B.S., M. D., Assistant Professor, RMC and
Adjunct Attending, PSLH
Brocken, Cecilia, B.S., M.A., Ph. D., Associate Professor, RMC
and Associate Scientist, PSLH (also Psychology and Social
Sciences)
Bucheleres, H. Gunther, M. D., Professor, RMC and Senior
Attending, PSLH (also Internal Medicine)
Butler, Craig D., M. D., Emeritus, RMC and Emeritus, PSLH
Camacho, Felecitas, M. D., Instructor, RMC
Cantez, Talat, M. D., Associate Professor, RMC and Assistant
Attending, PSLH
Cantorna, Bernard, M. D., Assistant Professor, RMC
Chang, Timothy C., M. D., Instructor, RMC and Adjunct
Attending, PSLH
Chaudhary, Mohammady, M. D., Instructor, RMC and Adjunct
Attending, PSLH
Chen, Jackson W., M. D., Instructor, RMC and Adjunct Attending,
PSLH
Christian, Joseph R., M. D., Professor, RMC and Senior
Attending, PSLH
Conway, Oren M., M. D., Assistant Professor, RMC and Assistant
Attending, PSLH
Czerniejewski, Richard, M. D., Instructor, RMC and Adjunct
Attending, PSLH
Dammers, Warren R., M. D., Lecturer, RMC and Consultant,
PSLH
Dampitz, Robert E., M. D., Assistant Professor, RMC and
Assistant Attending, PSLH (also Psychiatry)
Diamond, Eugene R., M. D., Visiting Professor, RMC
Dochios, Mary, B.S., M. D., Assistant Professor, RMC
Driscoll, Thomas P., M. D., Assistant Professor, RMC
Driscoll, Paul, F., M.Ed., Instructor, RMC and Assistant
Scientist, PSLH
Elam, Harry P., M. D., Professor, RMC and Senior Attending,
PSLH (also Preventive Medicine)
Eriksen, Ronald G., B.S., M. D., Instructor, RMC
Funk, Jeanne, A.B., Ph. D., Assistant Professor, RMC and
Assistant Scientist, PSLH (also Psychology and Social Sciences)
Gardner, H. Rex, M. D., Assistant Professor, RMC and Assistant
Attending, PSLH (also Diagnostic Radiology)
Gewurz, Anita T., B.S., M. D., Instructor, RMC and Adjunct
Attending, PSLH (also Immunology)

Grossman, Aaron, B.A., M.D., Professor, RMC and Senior Attending, PSLH

Grossman, Herbert J., B.S., M.D., Professor, RMC and Senior Attending, PSLH (also Neurological Sciences)

Guerrero-Tiro, Lourdes, M.D., Assistant Professor, RMC and Assistant Attending, PSLH

Halstead, R. David, B.S., M.D., Assistant Professor, RMC and Assistant Attending, PSLH

Hahn, Kyung, O.K., M.D., Instructor, RMC

Henikoff, Leo M., M.D., Associate Professor, RMC and Associate Attending, PSLH

Henn, S. C., B.A., M.S., M.D., Emeritus, RMC and Emeritus, PSLH

Hutchinson, Janice, M.D., Instructor, RMC and Adjunct Attending, PSLH

Hyde, John S., B.S., M.D., Professor, RMC and Senior Attending, PSLH

Israel, Jeannette, M.D., Instructor, RMC and Adjunct Attending, PSLH

Johnson, Frank, M.D., Associate Professor, RMC and Senior Attending, PSLH (also General Surgery)

Jones, Clay H., Jr., B.A., M.D., Associate Professor, RMC and Senior Attending, PSLH (also Preventive Medicine)

Jung, Edward, B.S., M.D., Assistant Professor, RMC and Assistant Attending, PSLH

Kaliana, Muthukumaran, B.A., M.D., Instructor, RMC and Adjunct Attending, PSLH

Kallick, Charles, B.S., M.D., Associate Professor, RMC and Associate Attending, PSLH (also Preventive Medicine)

Kang, Soo Sang, Ph.D., M.D., Assistant Professor, RMC and Adjunct Attending, PSLH

Kapadia, Pravin, M.B.B.S., Assistant Professor, RMC

Katele, Elvyra, M.D., Member, RMC

Keith, L. Eugene, B.S., M.D., Associate Professor, RMC and Senior Attending, PSLH

Khurana, C. Mohini, B.S., M.B.B.S., Associate, RMC

Khurana, Saroj, B.S., M.B.B.S., Instructor, PSLH

Kiley, R. James, B.S., M.D., Assistant Professor, RMC and Senior Attending, PSLH

Kindrachuk, William, B.A., B.S., M.D., Assistant Professor, RMC

Kintanar, Felismeno, A.A., M.D., Instructor, RMC and Adjunct Attending, PSLH

Koinis, Kostas E., M.D., Associate, RMC

Kurup, Ramachandra, M.D., Assistant Professor, RMC and Assistant Attending, PSLH

Lev, Maurice, B.S., M.A., M.D., Distinguished Professor, RMC (also Internal Medicine)

Levy, Howard, M.D., Assistant Professor, RMC and Consultant, PSLH

Limp, Charles, M.D., Assistant Professor, RMC

Lin, Sun Kuang, M.D., Instructor, RMC

Lukens, Abbie R., B.S., M.S., M.D., Assistant Professor, RMC

Manaligod, Librada, M.D., Assistant Professor, RMC and Assistant Attending, PSLH

Mandel, Elias, B.S., M.D., Associate, RMC

Mariyappa, M. Prabhavath, M.B.B.S., D.C.H., Instructor, RMC and Adjunct Attending, PSLH

Matthews, Janice, M.D., Instructor, RMC
 McLain, Larry, M.D., Assistant Professor, RMC
 Mead, John, M.S., Instructor, RMC and Adjunct Scientist, PSLH
 Medenis, Rute S., M.D., Associate Professor, RMC and Associate Attending, PSLH
 Meier, Werner, B.S., M.D., Assistant Professor, RMC and Assistant Attending, PSLH (also Obstetrics and Gynecology)
 Melyn, Michelle, B.S., M.D., Assistant Professor, RMC and Assistant Attending, PSLH (also Neurological Sciences)
 Mendoza-Levy, Elizabeth, M.D., Instructor, RMC and Adjunct Attending, PSLH
 Mercer, Jeanne K., B.S., A.B., M.D., Assistant Professor, RMC
 Miller, Howard R., B.A., M.D., Assistant Professor, RMC and Emeritus, PSLH
 Miller, Robert A., M.D., Visiting Professor, RMC and Consultant, PSLH
 Mini, James A., B.S., M.D., Assistant Professor, RMC
 Morales, Silvo D., M.D., Assistant Professor, RMC and Senior Attending, PSLH
 Muenster, Joseph J., M.D., Associate Professor, RMC and Senior Attending, PSLH (also Internal Medicine)
 Mukundan, Padmanabhan, M.D., Associate, RMC
 Narayan, Laxmi, M.S., Associate, RMC and Assistant Attending, PSLH
 Nelson, Karen B., A.B., M.D., Assistant Professor, RMC and Assistant Attending, PSLH
 Oberg, Gary R. B.A., M.D., Instructor, RMC and Adjunct Attending, PSLH
 Pachman, Daniel James, M.D., Professor, RMC and Consultant, PSLH
 Page-El, Edward, B.A., M.D., Assistant Professor, RMC and Assistant Attending, PSLH (also Neurological Sciences)
 Paul, Shashi D., M.D., Associate, RMC and Assistant Attending, PSLH
 Pierce, Mila Ione, B.S., M.D., Distinguished Professor, RMC and Associate Attending, PSLH (also Internal Medicine)
 Proteau, Roseanne V., A.B., M.D., Assistant Professor, RMC and Associate Attending, PSLH (also Preventive Medicine)
 Puc, Frank C., B.S., M.D., Assistant Professor, RMC and Associate Attending, PSLH
 Roa, Sripathy, M.D., Associate, RMC and Assistant Attending, PSLH
 Ratajik, Alyda R., A.B., M.D., Assistant Professor, RMC
 Rathi, Manohar L., M.D., Assistant Professor, RMC
 Raycraft, William B., B.S., M.D., Emeritus, RMC
 Reddi, K. T., M.D., Assistant Professor, RMC and Assistant Attending, PSLH
 Rosenthal, Ira M., A.B., M.D., Professor, RMC and Consultant, PSLH
 Sacks, Martin O., M.D., Assistant Professor, RMC
 Santucci, Barbara, B.A., M.D., Assistant Professor, RMC and Associate Attending, PSLH (also Internal Medicine)
 Schwartz, Donald P., B.A., M.D., Assistant Professor, RMC and Adjunct Attending, PSLH
 Shadab, Farrah, M.D., Instructor, RMC
 Shaw, Noel G., M.D., Emeritus, RMC and Emeritus, PSLH
 Shmigelsky, Irene, B.A., M.D., Assistant Professor, RMC and Associate Attending, PSLH

Sinha, Sachchida N., M.D., Member, RMC and Adjunct Attending, PSLH
 Spaeth, Ralph, M.D., Emeritus, RMC
 Stepan, C. Edward, M.D., Emeritus, RMC and Emeritus, PSLH
 Stine, Robert H., B.S., M.D., Assistant Professor, RMC and Assistant Attending, PSLH
 Strokosch, Gary R., B.A., M.D., Assistant Professor, RMC and Assistant Attending, PSLH
 Sulayman, Rabi, B.S., M.D., Assistant Professor, RMC and Adjunct Attending, PSLH
 Swarts, Charles L., M.D., Associate Professor, RMC and Associate Attending, PSLH
 Takhtehchian, Mohammad T., M.D., Instructor, RMC and Adjunct Attending, PSLH
 Tunestam, Nils J., M.D., Assistant Professor, RMC
 Vasan, Ushanalini, M.D., Assistant Professor, RMC and Assistant Attending, PSLH
 Vedam, Venkata, S., M.D., Assistant Professor, RMC and Adjunct Attending, PSLH
 Vercoe, James L., B.S., M.D., Assistant Professor, RMC
 Wai, William Y.S., M.D., Instructor, RMC and Adjunct Attending, PSLH
 Wallin, Paul E., B.S., M.D., Instructor, RMC
 Williams, Richard F., B.S., M.D., Assistant Professor, RMC
 Wirtshafter, Robert, M.D., Assistant Professor, RMC
 Wong, Paul W., M.D., Professor, RMC and Senior Attending, PSLH (also Internal Medicine)
 Zarrabi, Jalil, M.D., Assistant Professor, RMC and Adjunct Attending, PSLH
 Zervopoulos, Evangelia, M.D., Instructor, RMC

The Department of Pediatrics inpatient unit includes beds for newborns, infants, children, and adolescents. The patient areas are divided into a Section of Neonatology, which has nurseries for well babies; a perinatal center that includes neonatal intensive care and neonatal intermediate care units; 15 pediatric surgical beds; twelve intensive care beds; a general pediatric unit of 33 beds for infants and children 12 years of age and under; and 22 beds for adolescents and young adults 13 to 21 years of age. Inpatient admissions are approximately 6,000 per year, with equal distribution of medical and surgical patients. Approximately one-half of the patient admissions are private.

The staff includes 41 full-time, five part-time, and 76 volunteer members. The teaching program correlates medical student and house staff training. This type of training program results in an ever-increasing opportunity for the house staff to participate in academic teaching and research. Daily experience is directed primarily toward the understanding of basic principles and practices of pediatrics.

Training for the G1 (first-year trainee) consists of inpatient and ambulatory assignments, with rotation through general pediatric medical, pediatric surgical, adolescent and young adult services, developmental pediatrics, and genetics.

Ambulatory experience includes appropriate services integrated with the inpatient program. Specialty experience is available in general pediatrics, in pediatric medical and surgical specialties, and on an inpatient and outpatient basis in growth and development, preventive pediatrics, allergy/clinical immunology, cardiology,

endocrinology and metabolism, genetics, hematology/oncology, psychiatry, psychology, neurology, radiology, poison control, accident prevention, and birth defects.

The emergency room-triage-acute care services are staffed by residents with continuous consultation service by the full-time and volunteer staff.

The neonatal nurseries are under the direction of the Department of Pediatrics. Approximately 300 infants are delivered each month. Under close supervision, the trainee becomes acquainted with the newborn infant during and after discharge from the hospital.

The trainee receives inpatient responsibility and teaching experience under the direct supervision of a senior resident and volunteer or full-time staff members. Attending pediatricians act as supervisors and consultant to the pediatric residents.

The G2 (second-year trainee) rotates through general pediatric medical, pediatric surgical, adolescent, neonatal, and hematology/oncology services with supervisory responsibility for G1 trainees and junior and senior medical students. The G3 (third-year trainee) rotates through allergy/clinical immunology, cardiology, the neonatal intensive care center, the pediatric intensive and intermediate care centers, and an elective service.

Cardiorespiratory diseases, including rheumatic fever, congenital heart defects, and collagen diseases are presented in the ambulatory and inpatient services, using the facilities of the cardiorespiratory laboratory and chest disease service. The resident receives experience under direct supervision of a qualified pediatrician, an internist, and a surgeon, with full-time and volunteer staff members as consultants. Student teaching and ambulatory service responsibility are increased during advanced training. Students on the ambulatory and inpatient services are assigned to the residents for teaching purposes during specific periods of the week.

The graduate program also includes a pediatric assignment of the family practice residents from Swedish Covenant Hospital and West Suburban Hospital. These assignments are for a two-month period, during which time the trainees rotate through a general pediatric service to acquire basic skills and knowledge in general pediatrics and some of its subspecialties. Opportunity is afforded for participation in patient care and learning of diagnostic and therapeutic procedures in the inpatient and ambulatory setting.

An elective subspecialty assignment in neonatology, pediatric radiology, allergy/clinical immunology, hematology/oncology, genetics, adolescent medicine, pediatric cardiology, and ambulatory pediatrics has been offered to residents from Christ Hospital and Mount Sinai Hospital during the past year, and will be continued in the future.

Section of Adolescent and Young Adult Medicine

Strokosch, Gary R., M.D., Director

The focus of the Section of Adolescent and Young Adult Medicine is the health care of a special group of patients approximately 13 to 21 years of age. This is pursued in both inpatient and ambulatory care settings by operating both a 22-bed inpatient unit, and outpatient office facilities geographically separated from younger children and designed to provide maximal comfort and peer interaction for adolescent patients.

Pediatric residents are assigned to a 2½ month rotation on the inpatient unit servicing both medical and surgical patients. Residents are under the direct supervision of the director of the



section. Residents also direct the activities of one or two Rush Medical College students rotating through the unit on a four-week assignment.

Significant numbers of adolescents are cared for in all of the Department of Pediatrics ambulatory services. Settings are provided in which residents are supervised by pediatric attending staff. Inpatient and outpatient care of the adolescent is integrated. Residents are expected to assume a major role in the care of adolescent patients, and participate in the activities of various members of the patient care team including nurses, social workers, psychologists, medical subspecialists, dietitians, etc.

Section of Allergy and Clinical Immunology

Hyde, John S., M.D., Director

Training in the Section of Allergy and Clinical Immunology includes inpatient and outpatient experience. First-year residents spend approximately 70 percent of their time in pediatric and adult clinics. Teaching consists of informal ward rounds, journal clubs, allergy/immunology lectures, seminars, and patient conferences. By individual arrangement the resident spends two to three months, part-time, in at least two outpatient clinics or laboratories: dermatology, otolaryngology, psychiatry, pulmonary medicine, microbiology, or research immunology.

Research and clinical immunology studies include one quarter of formal lectures and laboratory work in the graduate departments of microbiology and/or immunology.

The resident sees patients with hypersensitivity diseases and attends outpatient services and the emergency room. Consultations are made by the allergy/clinical immunology trainee in the presence of a certified allergist. Responsibility for the care of allergy/immunology patients is assumed by the resident after six months of supervised experience. Upon assuming consultation responsibility, residents are subject to review by a member of the allergy/clinical immunology staff. Outpatient facilities consist of three children's and two adult clinics at Rush, and one children's and one adult clinic at University of Illinois Hospital.

Trainees are involved in research. The first-year resident works on an investigative problem. The second-year resident devotes half-time to specific research study. Programs for M.S. and Ph.D. degrees can be arranged.

Section of Ambulatory Pediatrics

Elam, Harry P., M.D., Director

The diversified program in ambulatory and community pediatrics is designed to prepare the physician for a career either in pediatric practice or in academic ambulatory pediatrics. The section offers supervised experience in screening and crisis care, comprehensive care, continuity care, preventive pediatrics, adolescent medicine, and subspecialties. House staff members have inpatient obligations, and have the opportunity to follow their own patients during hospitalization. The availability of beds for admission and the availability of visiting nurses for follow-up help assure continuity of care.

The program affords an opportunity to work with Medical Center multidisciplinary groups dealing with children who have learning disorders, developmental problems, and multiple handicaps. Experience is gained in the effective use of resources such as nutritionists, psychologists, public health nurses, social workers, and community agencies.



House officers participate in pediatric grand rounds and multidisciplinary conferences. Arrangements are made with staff pediatricians for the house staff member to gain experience in the private pediatric office setting; emergency room experience is also provided. The flexibility of the program allows the interested house staff member to emphasize certain aspects of ambulatory care. House officers also have teaching responsibilities.

Section of Pediatric Cardiology

Bucheleres, H. Gunther, M.D., Director

This section consists of two full-time and five part-time physicians. The program is approved for board qualifications.

Average annual departmental statistics include 325 admissions, 180 cardiac catheterizations, 120 cardiovascular surgical procedures, and 1,200 outpatient visits.

Training is given in clinical and laboratory diagnosis of pediatric heart disease. The Section of Pediatric Cardiology and the Regional Perinatal Center work together in the care of premature infants. Clinical conferences and ward rounds develop the trainee's experience in diagnosis and therapy. Invasive and noninvasive techniques and cardiopulmonary physiology are taught in several specialized laboratories. The section members participate in intraoperative procedures and postoperative patient care.

Detailed analysis of the pathologic anatomy of cardiovascular disease is pursued in collaboration with the Congenital Heart Disease Research and Training Center, which is located near the Medical Center. Trainees in pediatric cardiology may enhance their knowledge of embryology and cardiopulmonary pathology during assignments of one month per year to the Center, and its director conducts regular pathology conferences at Presbyterian-St. Luke's Hospital. Over 90 percent of the 30 to 35 children with heart disease who die annually undergo postmortem examination.

Section of Community Pediatrics, Mile Square Health Center

Puc, Frank, M.D., M.P.H., Director

The development of the neighborhood health center represents a relatively new approach to comprehensive family-oriented medical care for poverty areas. The Mile Square Health Center serves a community of 23,000, half of which are in the pediatric age group. The philosophy of the center stresses continuous, coordinated, comprehensive care.

General pediatric care is rendered in the center. Routine laboratory and radiological services are available on the premises. Patients requiring inpatient or outpatient consultation or special diagnostic services are referred to Presbyterian-St. Luke's Hospital.

A program for the training of nurse associates has been functioning since the inception of the center in 1967. Nurse associates function in the preventive aspect of the pediatric care and in "pediatric screening." Medical students are offered an opportunity to get an overview of community pediatrics at Mile Square.

All pediatricians working 50 percent or more of their time at the center are on the staff of Presbyterian-St. Luke's Hospital, and have a faculty appointment at Rush Medical College.

Section of Cytogenetics and Biochemical Genetics

Wong, Paul, M.D., Director

This section provides laboratory diagnosis for cytogenetic and metabolic disorders for inpatients and outpatients at Presbyterian-

St. Luke's Hospital. Patients are referred from the city of Chicago and from outside the city. They include infants with physical malformations, patients of pediatric and adult age with metabolic disorders, parents with fertility problems, recurrent miscarriages, or abnormal children. Students, residents, graduate students, or other professionals working in the section learn pedigree analysis, diagnostic procedures, counseling, therapeutic approaches, and prenatal diagnostic techniques. Pediatric residents rotate through this service as part of their training program. However, this program is also extremely valuable for students who plan to specialize in family practice or obstetrics. The program is of practical importance for obstetric residents and neonatologists in training.

Summer student research projects are offered yearly under the guidance of the staff. Space and equipment will be provided. These projects emphasize training, and their nature varies with the background and interest of the individual.

Section of Human Development

Brocken, Cecilia, Ph.D., Director

The Section of Human Development provides services for the pediatric patient in the context of the family, integrating medical pediatric practice with human development and behavior. Psychologists on the staff provide a full range of psychological services, with particular attention to the child and adolescent under the stress of illness and hospitalization. The Birth Defects Special Treatment Center, directed by a pediatrician, offers comprehensive care for children with birth defects, including provision for long-term follow-up.

In addition to the educational opportunities inherent in the collaborative patient care given by the medical and developmental staffs, the section conducts an educational/training program called Developmental Pediatrics. The faculty for this program is a loose coalition of representatives from the Birth Defects Special Treatment Center, the Child Protective Services Team, communication disorders, pediatrics, neurology, pediatric psychology, physical therapy, social services, and the Children's Day Hospital. Two major educational approaches are utilized: (1) a required 10- to 12-week rotation; and (2) regularly scheduled teaching conferences.

Research activities currently directed by the pediatric psychologists include a study of attachment and feeding procedures; an investigation of the developmental effects of prenatal lead exposure; and an exploration of treatment modalities for obesity in children and adolescents.

Pediatric Infectious Disease Program

Reddi, K. T., M.D., Director

The Pediatric Infectious Disease Program was established to develop programs in infectious diseases within the pediatric setting. Cooperation and assistance is provided for continuing surveillance of pediatric infections and appropriate preventive activities.

The investigative activities of the program include: (1) basic research involving the study of possible etiology of collagen diseases; (2) studies on the evaluation of antibiotic-resistant organisms; (3) clinical research relating to the study of incidence and types of infectious diseases within the institution; (4) investigative studies of major citywide outbreaks, such as measles and diphtheria. These studies are carried out in collaboration with the Section of Infectious Diseases of the Department of Internal Medicine and the

Department of Pediatrics at Rush-Presbyterian-St. Luke's Medical Center, Mount Sinai Hospital, and the City of Chicago Department of Health.

There are regularly scheduled teaching rounds and conferences held both within the Medical Center and at other universities in Chicago.

A resident is regularly assigned to the Pediatric Infectious Disease Program for three months of special training. A one-year fellowship is available in pediatric infectious diseases.

Section of Newborn Medicine

Meier, Werner, M.D., Director

The newborn service admits 2,500 babies a year delivered at Rush.

Over 900 infants per year are admitted into the special care nursery, which includes intensive care isolette units and intermediate care units. A comprehensive perinatal approach is emphasized, with close cooperation of the obstetric service. There is a monthly perinatal mortality conference. As one of the regional perinatal centers selected by the Board of Health, State of Illinois, for the city of Chicago and nearby counties, there are active working and teaching activities in the community hospitals and a very specialized system for transporting sick infants into our Medical Center.

Pediatric second- and third-year trainees are assigned to the newborn service. Medical students' experience in the newborn service is acquired during clerkship or elective rotations. Opportunities to rotate through the service are offered to residents from the affiliated hospitals.

Neonatology fellows supervise patient care, assist with teaching, and participate in research and other special projects. Work rounds and attending rounds are held daily.

The special nursery clinic provides follow-up continuity of care for those babies with problems related to the perinatal period that continue after they have been discharged from the nursery.

Department of Preventive Medicine

Schoenberger, James A., B.S., M.D., Chairman

Dolecek, Therese A., M.S., Instructor, RMC

Dwarakanathan, Arcot A., M.B.B.S., Instructor, RMC and
Adjunct Attending, PSLH (also Internal Medicine)

Eckenfels, Edward, M.A., Assistant Professor, RMC

Elam, Harry P., B.S., M.D., Associate Professor, RMC and
Associate Attending, PSLH (also Pediatrics)

Exum, Dolores B., B.A., M.S.W., Instructor, RMC (also
Psychology and Social Sciences)

Hall, Yolanda F., M.S., Assistant Professor, RMC and Assistant
Scientist, PSLH (LOA)

Hudson, Edsel K., B.S., M.D., Associate Professor, RMC and
Senior Attending, PSLH (also Internal Medicine)

Jones, Clay H., Jr., B.A., M.D., Assistant Professor, RMC and
Senior Attending, PSLH (also Pediatrics)

Kallick, Charles, B.S., M.D., Assistant Professor, RMC and
Associate Attending, PSLH (also Pediatrics)

Kassriel, Robert S., A.B., M.D., Instructor, RMC and Assistant
Attending, PSLH

Klinger, Alfred D., B.S., M.D., Associate, RMC and Associate
Attending, PSLH (also Internal Medicine)

Lepper, Mark H., B.A., M.D., Professor, RMC and Senior
Attending, PSLH (also Internal Medicine)



Levin, Stuart, B.M., M.D., Associate Professor, RMC and Senior Attending, PSLH (also Internal Medicine and Microbiology)

Levine, Charlotte C., B.A., M.D., Assistant Professor, RMC and Assistant Attending, PSLH (also Internal Medicine)

Levine, Milton D., B.A., Sc.D., M.D., Professor, RMC and Senior Attending, PSLH (also Internal Medicine)

Liu, Shuguey, M.S., Instructor, RMC

McCreary, Patricia A., A.B., M.D., Associate Professor, RMC and Associate Attending, PSLH (also Internal Medicine)

Meyer, John H., M.D., Associate, RMC and Assistant Attending, PSLH (also Internal Medicine)

Nelson, Karen B., A.B., M.D., Assistant Professor, RMC and Assistant Attending, PSLH (also Pediatrics)

Neri, Gilberto S., Jr., M.D., Assistant Professor, RMC and Assistant Attending, PSLH

Passavoy, Mitchell, B.A., M.A., Emeritus, RMC and Emeritus, PSLH

Pomerantz, Rhoda S., A.B., M.D., Assistant Professor, RMC and Assistant Attending, PSLH (also Internal Medicine)

Post, John, M.D., Visiting Assistant Professor, RMC and Emeritus, PSLH (also Internal Medicine)

Proteau, Roseanne V., A.B., M.D., Assistant Professor, RMC and Assistant Attending, PSLH (also Pediatrics)

Raynor, William J., Jr., Ph.D., Assistant Professor, RMC

Reynolds, Robert E., B.A., M.D., M.P.H., Dr.P.H., Professor, RMC and Senior Attending, PSLH (also Internal Medicine)

Scheiner, David L., B.A., M.D., Associate Professor, RMC and Assistant Attending, PSLH (also Internal Medicine)

Schoenberger, James A., B.S., M.D., Professor, RMC and Senior Attending, PSLH (also Internal Medicine)

Schoenenberger, Joseph C., B.S., M.S., Ph.D., Assistant Professor, RMC and Assistant Scientist, PSLH (also Psychology and Social Sciences)

Shekelle, Richard B., Ph.D., Professor, RMC

Spies, Harold W., B.S., M.D., Associate Professor, RMC

Sunseri, Albert J., Ph.D., Associate, RMC, Complemental Faculty

Turner, Irene R., Assistant Professor, RMC

The Department of Preventive Medicine has active programs of teaching, research, and planning in the areas of health care delivery, preventive practices, biostatistics, epidemiology, and occupational and environmental health.

The medical director of ANCHOR (a health maintenance organization), as a member of the department, plays a major role in developing new models for health care delivery. The department is actively working with the Vice President for Health Care Planning in designing an interrelated network of health maintenance organizations.

There is ongoing research in the department in preventive practices and chronic disease epidemiology.

New trials were instituted in 1974 and 1975. One, the Multiple Risk Factor Intervention Trial (MRFIT) of the National Heart, Lung and Blood Institute (NHLBI), is a cooperative study being carried out in 20 centers throughout the United States to test the hypothesis that simultaneous intervention against the three major risk factors will prevent clinical coronary heart disease. The Rush MRFIT center is located off campus in Oak Brook, Illinois. The

other study, started in 1975, is the Aspirin Myocardial Infarction Study (AMIS) of the NHLBI, a nationwide cooperative study of 30 centers to test the efficacy of aspirin in the prevention of recurrent myocardial infarctions. Another new study, the Beta-Blocker Heart Attack Trial (BHAT) has been initiated. Six Rush network hospitals are cooperating in recruiting participants who have sustained an acute myocardial infarction into a randomized double-blind study. Thirty-three medical centers in the United States are cooperating in the trial.

Elective experience is available in the department for any resident interested in furthering his or her training in health care planning, medical care research, and epidemiology. Residents may elect to participate in any of the studies or programs described above and/or develop individual research programs under supervision.

Section of Epidemiology and Biostatistics

Shekelle, Richard B., Ph.D., Director

Liu, Shuguey, M.S.

Raynor, William J., Jr., Ph. D.

The Section of Epidemiology and Biostatistics provides consultation and services in research design, applied statistics, and analysis of data. It also offers formal courses in these disciplines for medical and graduate students, and maintains an active research program. Epidemiologic topics currently under investigation include the following: (1) fatal myocardial infarction in young women and the role of oral contraceptives; (2) personality factors and incidence of cancer; (3) the type A behavior pattern and risk of coronary heart disease (CHD); (4) asymptomatic hyperglycemia and risk of CHD death; (5) social, psychological, and biological factors related to high blood pressure in adolescents and adults; and (6) risk factors for stroke. In the area of biostatistics, topics being studied include: (1) mean square error properties of various matching techniques in case-control studies; (2) applications of matching techniques to improve precision in linear models; (3) dose-response curve fitting; and (4) the effect of human digit preference on machine-human comparisons.

Department of Psychiatry

Fawcett, Jan, M.D., the Stanley G. Harris, Sr. Chairman of Psychiatry

Aagesen, Carl A., M.D., Instructor, RMC

Ahluwalia, Y. Kumar, M.D., Assistant Professor, RMC and Assistant Attending, PSLH

Alexander, Harlan G., M.D., Instructor, RMC and Assistant Attending, PSLH

Armstrong, Claresa, M.D., Assistant Professor, RMC and Senior Attending, PSLH

Arons, Martin, M.D., Instructor, RMC

Bagri, Sushil, M.D., Instructor, RMC and Adjunct Attending, PSLH

Basch, Michael F., M.D., Visiting Professor, RMC

Benezra, Eliot E., M.D., Assistant Professor, RMC and Assistant Attending, PSLH

Berendi, Sandor, M.D., Instructor, RMC and Adjunct Attending, PSLH

Berger, Jack C., M.D., Assistant Professor, RMC and Associate Attending, PSLH

Brueckner, David Armstrong, M.D., Assistant Professor, RMC and Assisting Attending, PSLH



Buck, David W., M.D., Assistant Professor, RMC and Associate Attending, PSLH
 Carlock, William D., M.D., Instructor, RMC and Assistant Attending, PSLH
 Cavanaugh, James L., M.D., Assistant Professor, RMC and Assistant Attending, PSLH
 Cavanaugh, Stephanie, M.D., Assistant Professor, RMC and Assistant Attending, PSLH (also Internal Medicine)
 Chang, Sidney Sin-Vih, M.D., Assistant Professor, RMC
 Charles, Andrew V., M.D., Instructor, RMC and Assistant Attending, PSLH
 Childress, Barry, M.D., Assistant Professor, RMC and Assistant Attending, PSLH
 Chor, Philip N., M.D., Instructor, RMC and Adjunct Attending, PSLH
 Christopoulos, Angelos C., M.D., Assistant Professor, RMC and Assistant Attending, PSLH
 Clark, David C., A.B., Instructor, RMC (also Psychology and Social Sciences)
 Corbett, Lionel, M.D., Assistant Professor, RMC and Assistant Attending, PSLH
 Dampitz, Robert, M.D., Assistant Professor, RMC and Assistant Attending, PSLH (also Pediatrics)
 David, Paul P., M.D., Assistant Professor, RMC
 Dederick, Margarida M., M.D., Assistant Professor, RMC and Assistant Attending, PSLH (also Internal Medicine)
 del Campo, Jose A., M.D., Assistant Professor, RMC and Assistant Attending, PSLH
 Drom, Robert E., M.D., Assistant Professor, RMC, and Associate Attending, PSLH
 Dubner, Harold H., M.D., Assistant Professor, RMC and Assistant Attending, PSLH
 Dulin, Theodore J., M.D., Assistant Professor, RMC, MSHMC
 Ebenhoeh, Patrick E., M.D., Assistant Professor, RMC and Associate Attending, PSLH
 Epstein, Phillip S., M.D., Assistant Professor, RMC and Assistant Attending, PSLH
 Ericksen, Stephen, M.D., Assistant Professor, RMC
 Fawcett, Jan, M.D., Professor, RMC and Senior Attending, PSLH
 Fein, Alfred, M.D., Instructor, RMC and Assistant Attending, PSLH
 Fink, Peter, M.D., Instructor, RMC
 Finkelstein, Adrian, M.D., Assistant Professor, RMC and Assistant Attending, PSLH
 Firling, Randall J., M.D., Instructor, RMC and Adjunct Attending, PSLH
 Gandhi, Anil, M.D., Instructor, RMC
 Garvin, John S., M.D., Professor, RMC and Senior Attending, PSLH (also Neurological Sciences)
 Gerty, Francis J., M.D., Emeritus Professor, RMC and Consultant, PSLH
 Goldberg, Arnold, M.D., Visiting Professor, RMC
 Guise, Gracia, M.S., Assistant Professor, RMC (also Psychology and Social Sciences)
 Gutmann, Cheryl M., M.D., Instructor, RMC
 Gwyer, Fred W., M.D., Assistant Professor, RMC and Assistant Attending, PSLH

Ha, Yong Soo, M.D., Instructor, RMC and Adjunct Attending, PSLH
 Halper, Ira S., M.D., Assistant Professor, RMC and Associate Attending, PSLH
 Hanni, John W., M.D., Professor, RMC and Senior Attending, PSLH
 Harbour, Jeanne D., M.D., Assistant Professor, RMC and Assistant Attending, PSLH
 Hengeveld, Carol T., M.D., Instructor, RMC
 Hof, Hildegard I., Ph.D., Assistant Professor, RMC (also Biochemistry)
 Hovde, Christian A., Ph.D., Visiting Assistant Professor, RMC
 Jones, Frank De Leon, M.D., Assistant Professor, RMC and Assistant Attending, PSLH
 Katz, Jerome I., M.D., Assistant Professor, RMC and Assistant Attending, PSLH
 Koenig, Richard C., M.D., Assistant Professor, RMC and Associate Attending, PSLH
 Kraines, Samuel H., M.D., Assistant Professor, RMC and Assistant Attending, PSLH
 Kravitz, Howard M., M.D., Instructor, RMC
 Kuhl, Dorothy L., M.D., Instructor, RMC and Assistant Attending, PSLH
 Lane, Harold J., M.D., Instructor, RMC and Assistant Attending, PSLH
 Langner, Herman P., M.D., Instructor, RMC and Assistant Attending, PSLH
 Lazarus, Lawrence W., M.D., Assistant Professor, RMC and Assistant Attending, PSLH
 Leff, Joel, M.D., Instructor, RMC and Adjunct Attending, PSLH
 Levitt, Leroy P., M.D., Professor, RMC, MSHMC
 Levy, Allan L., M.D., Instructor, RMC
 Lipoff, Dennis A., Ph.D., Assistant Professor, RMC (also Psychology and Social Sciences)
 Lorber, Maurice, M.D., Instructor, RMC
 Mangoubi, Elie, M.D., Instructor, RMC and Assistant Attending, PSLH
 Martinazzo-Dunn, Anna R., M.D., Instructor, RMC
 Mason, Norma, M.D., Assistant Professor, RMC and Assistant Attending, PSLH
 Meehan, Marjorie, M.D., Assistant Professor Emeritus, RMC and Emeritus, PSLH
 Mehlinger, Kermit, M.D., Associate Professor, RMC, MSHMC
 Miller, Raymond N., M.D., Assistant Professor, RMC and Senior Attending, PSLH (LOA)
 Meiszner, John W., M.D., Instructor, RMC
 Mohajer, Morteza, M.D., Instructor, RMC and Adjunct Attending, PSLH
 Norton, Arthur H., M.D., Associate Professor, RMC and Senior Attending, PSLH
 O'Donnell, John W., M.D., Instructor, RMC and Assistant Attending, PSLH
 Orloff, Mollie, M.D., Assistant Professor, RMC and Assistant Attending, PSLH
 Park, Young Nam, M.D., Instructor, RMC and Adjunct Attending, PSLH
 Patel, Minal, M.D., Instructor, RMC
 Patterson, Joan, M.D., Assistant Professor, RMC, MSHMC

Perkins, George, M.D., Assistant Professor, RMC and Consultant, PSLH

Pieper, William J., M.D., Assistant Professor, RMC and Associate Attending, PSLH

Pisani, Vincent D., Ph.D., Assistant Professor, RMC (also Psychology and Social Sciences)

Piyakul, Song, M.D., Instructor, RMC, and Assistant Attending, PSLH

Prosen, Melvin, M.S., Associate Professor, RMC and Associate Attending, PSLH

Reinstein, Michael J., M.D., Assistant Professor, RMC

Rosenthal, M. J., M.D., Assistant Professor, RMC and Associate Attending, PSLH

Sabelli, Hector C., M.D., Instructor, RMC

Sable, Arthur D., M.D., Assistant Professor, RMC and Associate Attending, PSLH

Samelson, Charles F., M.D., Assistant Professor, RMC

Sanchez, Jose Ramon, M.D., Assistant Professor, RMC and Assistant Attending, PSLH

Scheftner, William A., M.D., Assistant Professor, RMC and Assistant Attending, PSLH

Schwartz, Marvin, M.D., Assistant Professor, RMC and Associate Attending, PSLH

Smith, Garth D., M.D., Assistant Professor, RMC and Associate Attending, PSLH

Solomon, Alfred P., M.D., Emeritus Professor, RMC and Emeritus Senior Attending, PSLH

Steed, David W., M.D., Associate Professor, RMC and Senior Attending, PSLH

Stein, Edward, M.D., Assistant Professor, RMC and Assistant Attending, PSLH

Strozier, Charles P., Ph.D., Visiting Professor, RMC

Tennebaum, Arthur S., M.D., Assistant Professor, RMC and Assistant Attending, PSLH

Thampy, Kishore J., M.D., Assistant Professor, RMC and Assistant Attending, PSLH

Tilkin, Jeffrey M., M.D., Assistant Professor, RMC and Assistant Attending, PSLH

Trager, Eugene P., M.D., Assistant Professor, RMC

Trakas, Demetrius A., M.D., Assistant Professor, RMC and Associate Attending, PSLH

Turk, Charles E., M.D., Assistant Professor, RMC and Assistant Attending, PSLH

Urse, Vladimir G., M.D., Professor, RMC and Senior Attending, PSLH

Vasquez, Juan J., M.D., Assistant Professor, RMC and Assistant Attending, PSLH

Waldman, Maurice, M.D., Assistant Professor, RMC and Assistant Attending, PSLH

Watson, Laura, M.A., Instructor, RMC and Adjunct Scientist, PSLH (also Psychology and Social Sciences)

Weinberg, Jack, M.D., Professor, RMC and Senior Attending, PSLH

West, James, M.D., Assistant Professor, RMC and Assistant Attending, PSLH

Whiteley, Harry, M.D., Consultant, RMC

Wolf, Marion E., M.D., Assistant Professor, RMC and Associate Attending, PSLH

Wolff, John R., M.D., Professor, RMC and Consultant, PSLH Emeritus (also Obstetrics and Gynecology)
Wright, Donovan G., M.D., Professor, RMC and Senior Attending, PSLH
Yballe, Sonia, M.D., Instructor, RMC, MSHMC
Young, Janice, M.D., Instructor, RMC
Zadylak, Robert G., M.D., Instructor, RMC and Adjunct Attending, PSLH

A fully accredited four-year program provides the eclectic intensive experience necessary for the practice of modern comprehensive psychiatry. For residents without internships, a six-month assignment is arranged in medicine, neurology, or family practice. Training in psychodynamic orientation is integrated with psychopharmacologic, family, and community intervention. Research and teaching opportunities are encouraged when appropriate to the resident's development. The resident group is composed of four per year, for a total of 16 positions.

The Marshall Field IV Center is the administrative base of the department; it houses the Adult and Child Outpatient Psychiatric Clinic, the Adult and Children's Day Hospital, the Outpatient Alcoholic Program, seminar rooms, and residents' offices. This physical contiguity, which provides access to multiple resources for clinical care and education, exemplifies the continuity of the training program.

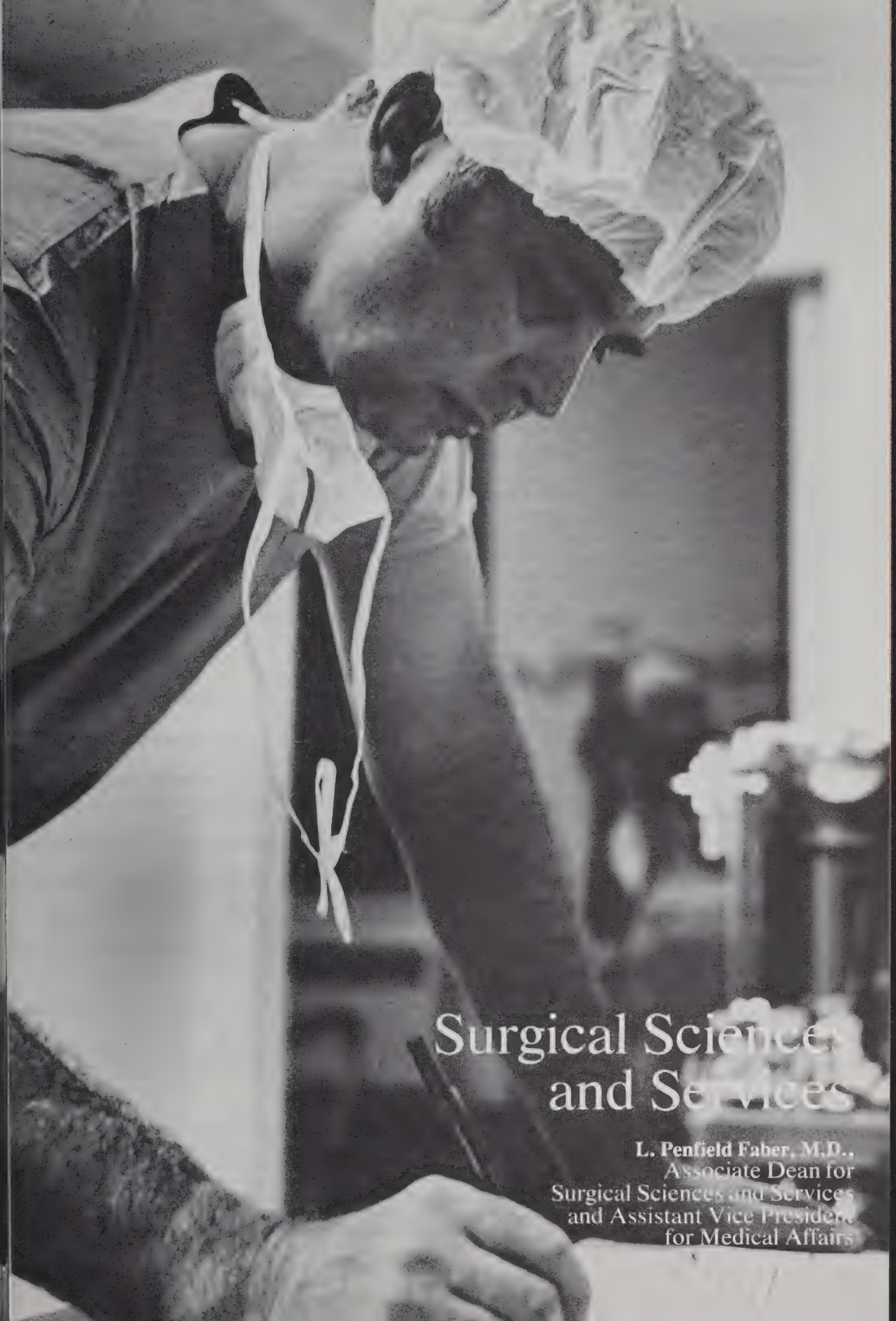
A modern psychiatric unit of 31 beds and an emergency psychiatric unit of 15 beds are an integral part of Presbyterian-St. Luke's Hospital. An adult general psychiatric inpatient unit of 22 beds and a 14-bed alcohol treatment unit are in operation in the department at the Sheridan Road Pavilion. Each unit is under the supervision of a clinical director who is responsible for the quality of patient care, education, and research.

A consultation service provides a broad range of liaison experience as well as specialized elective rotations.

Residents begin training with intensively supervised inpatient study. First-year seminars focus on fundamentals of patient interviewing and evaluation, diagnosis of psychopathology, psychiatric phenomenology, patient management, and psychotherapeutic and somatic therapy modalities. Second- and third-year residents are encouraged to pursue their individual talents while acquiring basic skills in outpatient diagnosis and therapy and child and adolescent psychiatry. In these various subdisciplines, seminar work coordinates with clinical experience and individual supervisory sessions. In addition, there are seminars on psychohistory and applied psychoanalysis in order to broaden the scope of the resident and adequately cover psychiatry's neighboring disciplines. Fourth-year residents are free to pursue research, community, and elective clinical paths. For residents interested in formal psychoanalytic training, the Chicago Institute for Psychoanalysis is available to candidates when appropriate.

The department is actively involved in a large collaborative clinical depression research study. There are also a number of studies in conjunction with other teaching institutions in Chicago to study longitudinally the course of schizophrenia using disordered thinking as a pathological measurement. Residents are encouraged to participate actively in these research endeavors.

Applications should be made to Melvin Prosen, M.D., Director of Psychiatry Residency Training.



Surgical Sciences and Services

L. Penfield Faber, M.D.,
Associate Dean for
Surgical Sciences and Services
and Assistant Vice President
for Medical Affairs

**Department of
General Surgery**

Southwick, Harry W., A.B., M.D., Chairman

Banich, Francis, B.S., M.D., Assistant Professor, RMC and Associate Attending, PLSH

Banich, Terence G., B.S., M.S., M.D., Instructor, RMC and Adjunct Attending, PSLH

Caldwell, Richard G., A.B., M.S., M.D., Assistant Professor, RMC and Associate Attending, PSLH

Cole, Warren H., M.D., Emeritus, RMC and Emeritus, PSLH

Davis, Carl B., Jr., A.B., M.D., Associate Professor, RMC and Associate Attending, PSLH

dePeyster, Frederic A., B.A., M.D., Professor, RMC and Senior Attending, PSLH

Diffenbaugh, Willis G., B.S., M.D., Emeritus, RMC and Senior Attending, PSLH

Doolas, Alexander, B.S., M.D., Associate Professor, RMC, and Senior Attending, PSLH

Economou, Steven G., B.A., M.D., Professor, RMC, and Senior Attending, PSLH

Fell, Egbert, M.D., Emeritus, RMC, and Emeritus, PSLH

Gilchrist, R. Kennedy, B.S., M.D., Emeritus, RMC and Emeritus, PSLH

Guynn, Vernon L., B.S., M.D., Assistant Professor, RMC and Associate Attending, PSLH

Haley, Ronald B., B.S., M.S., M.D., Assistant Professor, RMC and Senior Attending, PSLH

Hanselman, Russell, C., A.B., M.D., Emeritus, RMC and Emeritus, PSLH

Holmblad, Edward C., M.D., Emeritus, RMC and Emeritus, PSLH

Jamieson, Robert W., Ph.B., M.S., M.D., Associate Professor, RMC and Senior Attending, PSLH

Jensik, Stephen C., B.Sc., Ph.D., M.D., Instructor, RMC, and Adjunct Attending, PSLH (LOA)

Johnson, Frank R., S.B., M.D., Associate Professor, RMC and Senior Attending, PSLH (also Pediatrics)

Lawton, Stanley, M.D., Emeritus, RMC, and Emeritus, PSLH

McDonald, Gerald, M.D., Assistant Professor RMC and Assistant Attending, PSLH

McMillan, Foster L., B.S., M.D., Emeritus, RMC, and Emeritus, PSLH

Merkel, Frederick K., B.S., M.D., Associate Professor, RMC and Associate Attending, PSLH (also Internal Medicine)

Meyer, Harold I., M.D., Emeritus, RMC and Emeritus, PSLH

Olwin, John H., A.B., M.D., Emeritus, RMC and Emeritus, PSLH

Paul, Harold A., B.S., M.D., Associate Professor, RMC and Senior Attending, PSLH

Pomerantz, Marc A., B.A., M.D., Assistant Professor, RMC and Assistant Attending, PSLH

Rasmussen, Alfred, M.D., Emeritus, RMC, and Emeritus, PSLH

Rettig, Arthur, B.A., M.D., Assistant Professor, RMC and Assistant Attending, PSLH

Key: RMC—*Rush Medical College*; CHS—*Rush College of Health Sciences*; RCN—*Rush College of Nursing*; PSLH—*Presbyterian-St. Luke's Hospital*; LOA—*Leave of Absence*; CMGH—*Community Memorial General Hospital*; SCH—*Swedish Covenant Hospital*; MSHMC—*Mount Sinai Hospital Medical Center*; CH—*Christ Hospital*; GCH—*Galesburg Cottage Hospital*; CDH—*Central DuPage Hospital*; WSH—*West Suburban Hospital*

Reynolds, John T., B.S., M.S., M.D., Professor, RMC and Senior Attending, PSLH
 Roseman, David L., B.S., M.S., M.D., Associate Professor, RMC and Senior Attending, PSLH
 Salomon, Jacob, B.S., M.S., M.D., Instructor, RMC and Adjunct Attending, PSLH
 Schmidtke, Wendell H., B.S., M.S., M.D., Assistant Professor, RMC and Assistant Attending, PSLH
 Shorey, William D., A.B., M.D., Associate Professor, RMC and Senior Attending, PSLH
 Southwick, Harry W., A.B., M.D., Professor, RMC and Senior Attending, PSLH
 Straus, Albert K., A.B., M.S., M.D., Ph.D., Assistant Professor, RMC and Assistant Attending, PSLH
 Straus, Francis H., B.S., M.D., Emeritus, RMC and Emeritus, PSLH
 Witkowski, Leon J., B.S., M.S., M.D., Emeritus, RMC and Emeritus, PSLH

Optimal surgical care is best rendered to patients by a surgical staff that is not only of the highest caliber, but also well balanced in all of its various departments. A staff so composed provides a rich opportunity for the trainee, whether resident or fellow, to obtain a well-rounded and appropriately progressive education, both in basic surgery and in the disciplines of specialty surgery. The Department of General Surgery assumes the broadest responsibility for training within this environment.

There are four general surgery services, each supervised by a chief of service. Informal rounds are held daily with members of the attending staff, and formal teaching rounds take place at least once a week. Basic science information is incorporated in the general clinical programs at these conferences through participation of the various members of the basic science faculty of Rush Medical College.

First Year of Residency: Appointments to the first year of training in general surgery are primarily categorical. Trainees from the surgical specialties within the institution rotate through the general surgery services in a manner similar to the general surgery trainee in this first year of postgraduate training. There are four general surgery services in the hospital, and six months are spent in two-month rotations on three of the different services. One month is spent in cardiovascular surgery, one month in thoracic surgery, and one month in the surgical intensive care unit. Three months remain for elective rotations.

Second Year of Residency: The second year of residency is, in reality, the completion of the core training program in basic surgery. Second-year residents are buttressed on one side by first year trainees and the medical students assigned to their service (whom they must begin to guide and teach) and on the other side by the senior residents and attending surgeons. They perform surgery under the supervision of an attending surgeon or senior resident with staff privileges; equal emphasis is placed on surgical principles and correct operative techniques.

Third Year of Residency: The assignments during the third year of residency are more flexible than those during the first two years. Residents who have an inclination to develop and explore a basic

research project are strongly encouraged to do so. All house officers are expected to begin work on a basic or clinical research project at this time. Residents not assigned to the laboratory will again rotate through various clinical services.

Exposure to basic research experience at this stage fulfills several essential requisites to continued maturation in the science of surgery. During this third year, certain course work is available for the trainee which, combined with a thesis based on the trainee's project, may complete the qualifications for consideration of a master's degree in surgery.

Fourth Year of Residency: The fourth year is one of full clinical activity, with the resident assuming an increasing proportion of the responsibility for the management of patients on the service to which he or she is assigned. The resident is, in a way, the executive assistant of the senior resident and is expected to be fully cognizant of the exact status of all patients on the service.

Fifth Year of Residency: Fifth-year residents spend the entire year as the senior trainee on one of four general surgery services. In each instance, they are charged with the ultimate responsibility for the deliverance of duties to their subordinates while remaining fully knowledgeable of all matters pertaining to the care of the surgical patients.

Section of Pediatric Surgery

Johnson, Frank R., M.D., Director

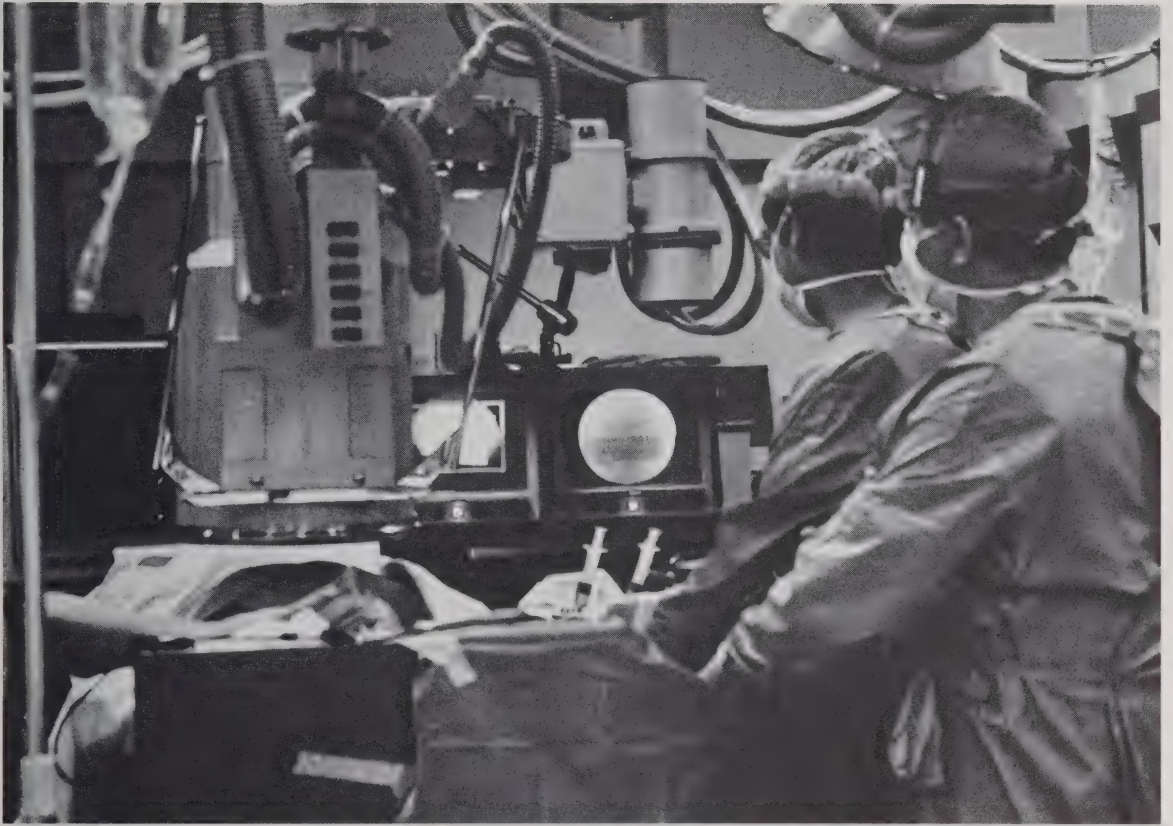
The care of infants, children, and adolescents who have congenital and acquired problems that require surgical care has undergone great change in recent years. The rotation of surgical residents through the pediatric surgical service brings them into contact with these problems, under supervision of an attending pediatric surgeon and in association with attending pediatricians and the pediatric house staff. Rounds are made several times a week in the newborn and neonatal nursery, where among the 3,000 deliveries yearly there are congenital problems requiring surgical treatment. The development of the Neonatal Center for high-risk infants has increased the number of patients with congenital anomalies requiring surgical management.

Two days a week are set aside for elective surgery, during which time the resident has an opportunity to assist and observe surgical treatment as a member of the operating team. Often he or she is first assistant to the senior resident or attending surgeon, and depending on interest and ability, may operate with the assistance of the senior resident or attending surgeon. The first-year resident is primarily responsible for the preoperative and postoperative care of the patients on his or her service, and, under the guidance and supervision of a senior resident, presents patients on daily ward rounds to the attending surgeon for additional consultation.

Section of Transplantation

Merkel, Frederick K., M.D., Director

The Section of Transplantation offers experience in both the clinical and research aspects of organ transplantation. The clinical service is a part of one of the four general surgery services. The organ procurement and preservation program is one of the most active in the country. To date, 225 kidneys have been procured for preservation and transplantation by this section. The section depends heavily on many of the Network hospitals, as well as other hospitals and institutions in northern Illinois and northern Indiana for referral of brain-dead cadaver donors. In addition to kidney



transplantation, other procedures necessary to prepare the patient for transplantation, such as nephrectomy, splenectomy, and vascular access are performed.

The surgical house staff assists with or carries out these procedures under the supervision of the transplant surgeons. Daily rounds are made and a daily renal transplant conference is held in conjunction with the nephrologists.

Active research is being carried out in organ perfusion preservation for those interested in a research experience. The surgical procedures performed on experimental animals are done in the animal resources facility, and the preservation studies are carried out in the preservation laboratory.

**Department of
Cardiovascular-Thoracic
Surgery**

**Section of Cardiovascular
Surgery**

Najafi, Hassan, M.D., Chairman

Najafi, Hassan, M.D., Acting Director

DeLaria, Giacomo A., B.S., M.D., Assistant Professor, RMC and Assistant Attending, PSLH

de Takats, Geza, B.A., M.S., M.D., Emeritus, RMC and Consultant, PSLH

Dye, William S., Jr., A.B., B.S., M.D., Professor, RMC, and Consultant, PSLH

Goldin, Marshall D., M.S., M.D., Assistant Professor, RMC and Associate Attending, PSLH

Hunter, James A., B.S., M.D., Professor, RMC and Senior Attending, PSLH

Javid, Hushang, B.S., M.S., M.D., Ph.D., Professor, RMC and Senior Attending, PSLH

Julian, Ormand C., B.S., M.D., Ph.D., Professor, RMC and Senior Attending, PSLH

Monson, David O., B.S., B.A., M.D., Associate Professor, RMC and Associate Attending, PSLH

Najafi, Hassan, M.S., M.D., Professor, RMC and Senior Attending, PSLH

Serry, Cyrus, M.D., Assistant Professor, RMC and Associate Attending, PSLH

Weinberg, Milton, Jr., M.D., Professor, RMC and Senior Attending, PSLH

Section of Thoracic Surgery

Kittle, C. Frederick, M.D., Director

Faber, L. Penfield, B.A., M.D., Professor, RMC and Senior Attending, PSLH

Jensik, Robert J., B.S., M.S., M.D., Professor, RMC and Senior Attending, PSLH

Kittle, C. Frederick, B.A., M.S., M.D., Professor, RMC and Senior Attending, PSLH

Langston, Hiram T., B.A., M.S., M.D., Visiting Professor, RMC and Consultant, PSLH

Milloy, Frank J., M.S., M.D., Associate Professor, RMC and Associate Attending, PSLH

Network Hospital Faculty

Anderson, James H., B.S., M.D., Member, Complementary Faculty, RMC, WSH

King, Jerry N., M.S., M.D., Assistant Professor, RMC, CH

Kukral, John C., A.B., M.S., M.D., Ph.D., Lecturer,

Complementary Faculty, RMC, CMGH

Oldfield, R. Charles, B.S., M.D., Assistant Professor, RMC, CMGH



Spinazzola, Angelo J., M.S., M.D., Assistant Professor, RMC, CH

Tsai, Eugene, M.S., M.D., Associate Professor, RMC, CH

The department consists of two sections, cardiovascular surgery and thoracic surgery, having separate patient care functions but a common goal in the training program.

Completion of an approved general surgical residency is a prerequisite for consideration. Applications should be made not less than 18 months prior to the desired starting date. Two residents are appointed each year, either on January 1 or July 1. This program makes the applicant eligible for examination by the American Board of Thoracic Surgery.

The duration of training varies from 30 to 36 months. Many residents begin the program in the Section of Cardiology, where the fundamentals of cardiac catheterization and angiography are stressed. Increasing responsibility in the performance of the various procedures is assigned as experience progresses. At the completion of this rotation, the resident is able to judge which diagnostic procedure is necessary, perform it with assistance, and then interpret the results. Time is also made available to learn electrocardiographic diagnosis, the essentials of electrocardioversion, and the operation of standard electronic monitoring equipment. Time is allotted to the study and review of respiratory physiology through laboratory and clinical pulmonary function studies. Bedside teaching of cardiac diagnosis in adults and children is conducted during daily ward rounds. The candidate is assigned certain patients selected for study by the director of the laboratory. He or she is then responsible for the pre-procedural work-up and presentation of such patients and follows them throughout their hospital course. This rotation usually lasts two months.

The candidate is also given the opportunity of spending three months at Children's Memorial Hospital, where he or she is given senior responsibility for the care of patients. A majority of these patients have congenital cardiac anomalies that require surgical treatment. An appreciable amount of independent surgical experience is gained during this rotation. On occasion, a resident is assigned to the 19-bed Surgical Intensive Care Unit, which is utilized for patients with major cardiovascular and thoracic surgical problems. The intensive care unit is directed by a member of the Section of Cardiovascular Surgery, who spends several hours per day in the unit providing excellent bedside teaching opportunities. Two interns from medicine, one from surgery, and medical students on their electives stimulate the assigned resident to participate in teaching. This rotation provides the possibility for a resident to engage in clinical review or investigation for future publication.

Many residents are assigned for one month in diagnostic radiology, under the direction of two radiologists with primary interest in peripheral angiography, where the principles of arteriography are taught.

There is also opportunity available for the resident to engage in ongoing investigative work in the cardiovascular surgical research laboratory. The first clinical year is spent in the Section of Thoracic Surgery, and is devoted exclusively to pulmonary and esophageal surgery with abundant endoscopic experience.

The final rotation consists of 12 months in the Section of Cardiovascular Surgery. The resident is junior for the first six months, during which time the majority of the operative experience

is in arterial surgery, the surgery of portal hypertension, and closed cardiac operations. The final six months as senior resident provide for training in and the performance of open heart surgery, with a continued effort in peripheral vascular surgery.

The two sections operate in four rooms five days a week for scheduled cases. Total cases average approximately 200 per month, with the resident staff performing all types. During the training period, each candidate moves through the operating room from first assistant to assuming operative responsibility as various techniques are mastered. Daily rounds are conducted by attending physicians and provide excellent training in bedside clinical diagnosis. The senior resident assumes responsibility for the weekly cardiovascular-thoracic conference, the daily surgical scheduling, and the disposition of service personnel for routine activities. Commensurate with ability, these residents assume full responsibility for the preoperative work-up and postoperative care of all patients and for the proper administration of the service.

At the weekly formal cardiovascular-thoracic conference, cases of interest are presented by several participating institutions from the city and suburbs. Time is allotted for the teaching of diagnostic thoracic radiology and pathology by informal instruction and regularly scheduled conferences. A monthly session provides an opportunity for the residents to meet invited visiting professors. Residents are encouraged to submit papers for presentation to national societies, with their expenses incurred by the institution. In addition, during the period of training, each resident will be sent to one of the scientific sessions of the Society of Thoracic Surgeons or the American Association for Thoracic Surgery.

Within the department there are several programs readily available to interested residents. These include a cardiac-assist program utilizing intra-aortic balloon pump devices, directed by a member of the Section of Cardiovascular Surgery, the extracorporeal circulation program, and the cardiovascular surgical research library. If the resident chooses to spend one year in this laboratory prior to clinical education, he or she will be given the opportunity to acquire a master's degree in surgery.

Department of Neurological Surgery

Whisler, Walter W., M.D., Ph.D., Chairman

D'Angelo, Charles M., B.A., M.D., Assistant Professor, RMC
and Assistant Attending, PSLH

Oldberg, Eric, B.S., M.D., Ph.D., Emeritus, RMC and Emeritus,
PSLH

Penn, Richard D., B.A., M.D., Associate Professor, RMC and
Associate Attending, PSLH

Selby, Roy, B.S., M.D., Visiting Associate Professor, RMC and
Consultant, PSLH

Sugar, Oscar, M.D., Visiting Professor, RMC and Consultant,
PSLH

Torres, Hernando, M.D., Associate Professor, MSHMC

Voris, Harold C., M.D., Ph.D., Emeritus, RMC and Emeritus,
PSLH

Whisler, Walter W., M.D., Ph.D., Professor, RMC and Senior
Attending, PSLH (also Neurological Sciences)

The Department of Neurological Surgery offers a six-year post-M.D. training program approved by the American Board of Neurological Surgery. During the first year, time is spent on rotation through general surgery and other surgical departments to develop a broad knowledge of the surgical arts and sciences. The

second year is spent in clinical neurosurgery, with emphasis on diagnosis and diagnostic neuroradiology. In the third year, there is a six-month rotation in neurology and six months in neuropathology. The fourth year is set aside for research or electives, and the last two years are devoted to clinical neurosurgery. Rotations often can be modified to accommodate special interests. The clinical aspects of the program are organized around the principle of progressively graded responsibility with appropriate supervision.

The program is designed to present the basic neurological sciences as well as the practical aspects of neurosurgery. During the year, the resident will attend neurology and neurosurgery grand rounds, brain-cutting seminars, neurosurgical topic seminars, and the basic neuroscience course (neuroanatomy, neurophysiology, and neurochemistry).

Primary among the strengths of the Department of Neurosurgery is the broad variety of clinical problems that are studied and managed and the utilization of all of the modern neurosurgical techniques available. Besides general cranial, spinal, and pediatric neurosurgery, many microsurgical and stereotaxic procedures are performed. An active program is also maintained for the medical treatment of malignant brain tumors. The research facilities in the Department of Neurosurgery include a tissue culture laboratory, several highly specialized neurochemistry laboratories, a general biochemistry laboratory, and a neurophysiology laboratory for stereotaxic and microsurgical work.

Department of Ophthalmology

Hughes, William F., M.D., Acting Chairman

Blaine, Richard M., M.D., Associate, RMC and Attending, SCH

Brown, David V. L., B.S., M.D., Assistant Professor, RMC and Associate Attending, PSLH

Cannon, Robert Lee, B.S., M.D., Assistant Professor, RMC and Attending, GCH

Dennis, Richard F., M.D., Instructor, RMC and Adjunct Attending, PSLH

Deters, Curtis F., B.A., M.D., Assistant Professor, RMC and Attending, CMGH

Deutsch, William E., B.S., M.D., Associate Professor, RMC and Senior Attending, PSLH

Feinhandler, Harold S., M.D., Assistant Professor, RMC and Attending, MSHMC

Fick, Bruce D., B.S., M.D., Associate, RMC and Attending, CMGH

Haas, Joseph S., B.A., B.S., M.D., Professor, RMC and Senior Attending, PSLH

Hackett, John N., M.D., Associate, RMC and Attending, CMH

Hagens, Walter E., B.S., M.D., Assistant Professor, RMC and Attending, CMGH

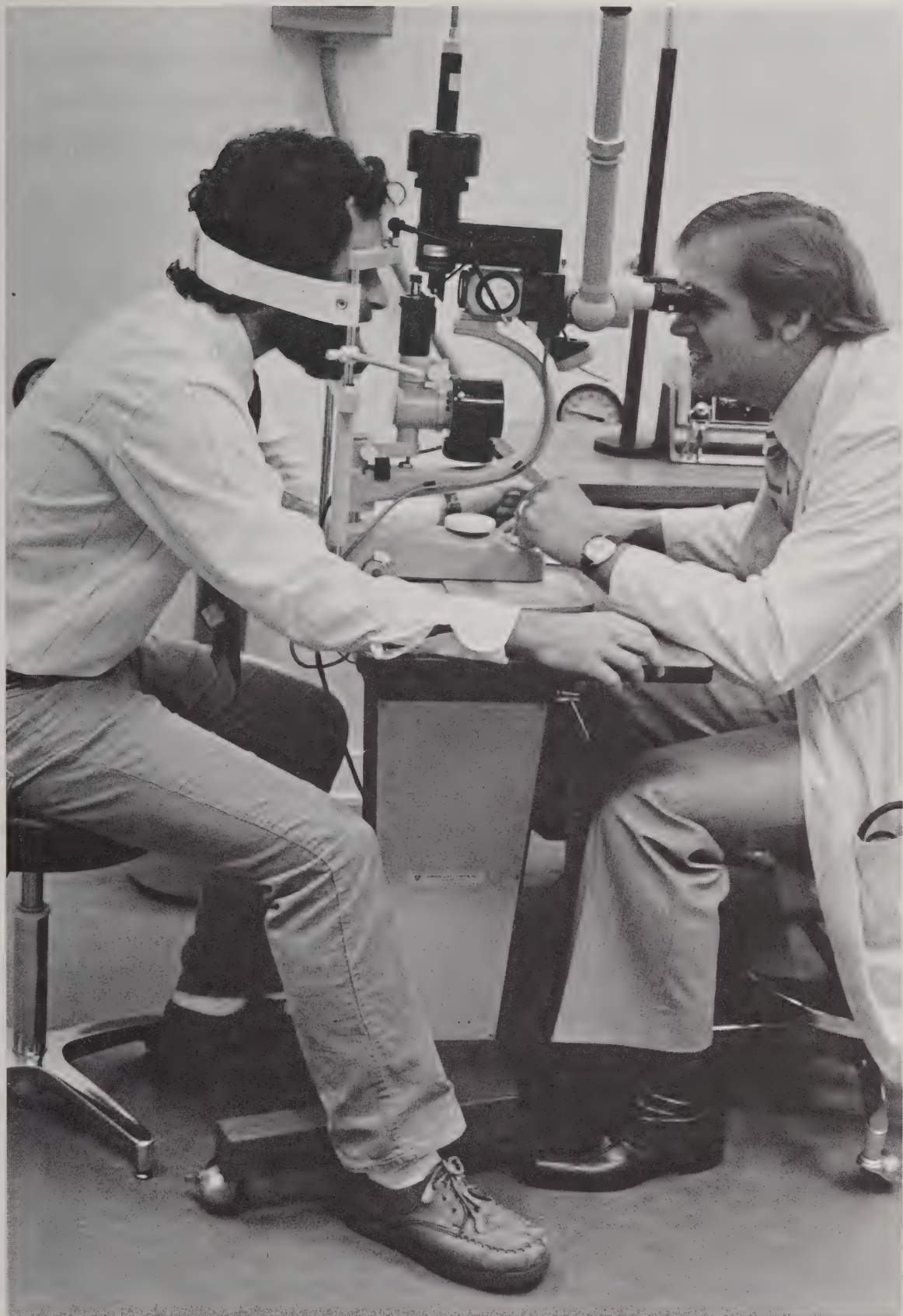
Hughes, William F., A.B., M.D., Professor, RMC and Senior Attending, PSLH

Kaplan, Joel A., B.A., M.S., M.D., Assistant Professor, RMC and Associate Attending, PSLH

Kirk, Harold Q., B.S., M.D., Associate Professor, RMC and Attending, WSH

Lee, Chang-Bok, B.S., M.D., Instructor, RMC and Assistant Attending, PSLH

Lewicky, Andrew O., B.S., M.D., Instructor, RMC and Adjunct Attending, PSLH



Lunde, Mark W., M.D., Instructor, RMC and Adjunct Attending, PSLH
 Mittelman, David, M.D., Visiting Assistant Professor, RMC and Consulting, PSLH
 Moncreiff, William F., B.S., M.S., M.D., Emeritus, RMC and Emeritus, PSLH
 Mundt, G. Henry, B.A., M.S., M.D., Assistant Professor, RMC and Attending, CMGH
 Nootens, Raymond H., B.S., M.D., Instructor, RMC and Adjunct Attending, PSLH
 Nowicki, Norbert J., B.S., M.D., Assistant Professor, RMC and Associate Attending, PSLH
 Panton, John H., M.D., Associate, RMC and Attending, WSH
 Pushkin, Edward A., B.S., M.D., Emeritus Professor, RMC and Associate Attending, PSLH
 Radvila, Izolda M., M.D., Instructor, RMC and Assistant Attending, PSLH
 Rosenberg, Michael A., B.A., M.D., Assistant Professor, RMC and Consulting, PSLH
 Schenk, Alan G., M.D., Instructor, RMC and Adjunct Attending, PSLH
 Scheribel, Karl, B.S., M.D., Emeritus Professor, RMC and Emeritus, PSLH
 Smith, Warren F., M.D., Assistant Professor, RMC and Attending, WSH
 Spindel, David, B.A., M.D., Instructor, RMC and Attending, MSHMC
 Spiro, Barbara, M.D., Associate, RMC and Assistant Attending, PSLH
 Stolar, Joel, M.D., Instructor, RMC and Adjunct Attending, PSLH
 Tresley, Jack, B.S., M.D., Instructor, RMC and Attending, MSHMC

The residency training program in ophthalmology is approved by the Residency Review Committee of the Council on Education of the American Medical Association, and by the American Board of Ophthalmology. Two residents are appointed each year.

Applications are usually accepted from those who have completed a specially modified pre-ophthalmological internship of one year in the Department of General Surgery at Rush-Presbyterian-St. Luke's Medical Center. Available positions for this first postdoctoral year are filled through the National Resident Matching Program. A residency in ophthalmology for three years follows, depending upon satisfactory service. This training includes a full-time postgraduate course of three to five months elsewhere. Travel, tuition fees, allowance for books, and the regular resident stipend are provided by the hospital.

The teaching program is built around the initial examination, treatment, and follow-up of patients from the beginning of training rather than around a pyramidal system of graduated responsibilities ending in a final period of surgery. The rate of development of surgical technique by a resident depends on competence; extraocular procedures are performed soon after beginning the residency, and intraocular procedures are performed after 12 months. The average resident performs approximately 100 major procedures during the three years of training. Other responsibilities

of the resident include consultations with other departments and the admission examination of private patients, with active participation in any surgical procedures. Residents are assigned for six-month rotations to groups of two or three attending ophthalmologists in order to develop better rapport and follow-up of patients.

Formal teaching rounds are devoted to a journal club, pathology, glaucoma, neuro-ophthalmology, motility, reports by staff or residents who have attended a scientific meeting elsewhere and systematic coverage of important subjects that require additional emphasis, or the American Academy Course in Continuing Education. Grand rounds in other departments are available if the subject is of ophthalmic interest. Although a research project is not required, each resident is urged to participate in either a clinical or laboratory project.

Department of Orthopedic Surgery

Galante, Jorge O., M.D., Chairman

Andriacchi, Thomas Peter, Ph.D., Assistant Professor, RMC and Assistant Scientist, PSLH

Belytschko, Ted B., B.S., Ph.D., Visiting Associate Professor, RMC

Corzatt, Richard D., B.S., M.D., Assistant Professor, RMC

Couden, Trevert, B.A., M.D., Assistant Professor, RMC

DeWald, Ronald L., B.S., M.D., Professor, RMC and Senior Attending, PSLH

Flynn, John F., Jr., M.D., Instructor, RMC

Hejna, William F., B.A., M.D., Professor, RMC and Senior Attending, PSLH

Howard, Francis M., B.A., M.D., Associate Professor, RMC and Associate Attending, PSLH

Kaushal, Satya P., M.D., Instructor, RMC

Kuettner, Klaus E., B.S., M.S., Ph.D., Professor, RMC (also Biochemistry)

Kuo, Ken, B.A., M.D., Assistant Professor, RMC and Assistant Attending, PSLH

Lambert, Claude N., A.B., M.S., M.D., Emeritus, RMC and Emeritus, PSLH

Lambur, James A. K., M.D., Assistant Professor, RMC

McNeill, Thomas, B.A., M.D., Assistant Professor, RMC and Assistant Attending, PSLH

Orth, Michael W., M.D., Assistant Professor, RMC

Pyati, Prahlad, M.B.B.S., M.S., Assistant Professor, RMC

Galante, Jorge O., B.A., M.D., D.M.Sc., Professor, RMC and Senior Attending, PSLH

Gilligan, William J., B.S., M.D., Assistant Professor, RMC

Girzadas, Daniel V., M.S., M.D., Associate Professor, RMC

Hark, Fred W., M.D., Emeritus, RMC and Emeritus, PSLH

Hark, William A., B.A., M.D., Associate Professor, RMC and Associate Attending, PSLH

Heck, Charles V., B.S., M.D., Clinical Professor, RMC and Consultant, PSLH

Redondo, Luis G., B.Sc., M.D., Assistant Professor, RMC

Rostoker, William, B.S., M.S., Ph.D., Complemental Faculty and Visiting Professor, RMC

Schenck, Robert, B.S., M.D., Assistant Professor, RMC and Assistant Attending, PSLH (also Plastic and Reconstructive Surgery)

Schultz, Albert B., B.S., Ph.D., Visiting Professor, RMC

Shapiro, Jules, B.A., M.D., Assistant Professor, RMC and
Assistant Attending, PSLH
Sheinkop, Mitchell B., M.D., Assistant Professor, RMC and
Assistant Attending, PSLH
Willander, Duane A., B.S., M.D., Assistant Professor, RMC

A five-year approved residency program in orthopedic surgery is offered at the Medical Center. The first year of the program is a core general surgery rotation in which training in general surgery, surgical intensive care, vascular surgery, plastic surgery, neurosurgery, and other surgical specialties is offered.

During the four subsequent years of orthopedic training, the resident rotates through the orthopedic services at Presbyterian-St. Luke's Hospital, the orthopedic service at Christ Hospital, and the Shriner's Hospital for Crippled Children in Chicago. Considerable opportunity for independent management of patients is provided at the senior resident level at the Medical Center and at Christ Hospital.

All of the patients admitted to the service are available for teaching. Clinical experience encompasses a broad scope of musculoskeletal problems, including spinal diseases, modern hip and knee surgery, surgery for arthritis, amputations, trauma, and hand and pediatric orthopedics. Active teaching clinics also are conducted in the private outpatient offices located in the Professional Building.

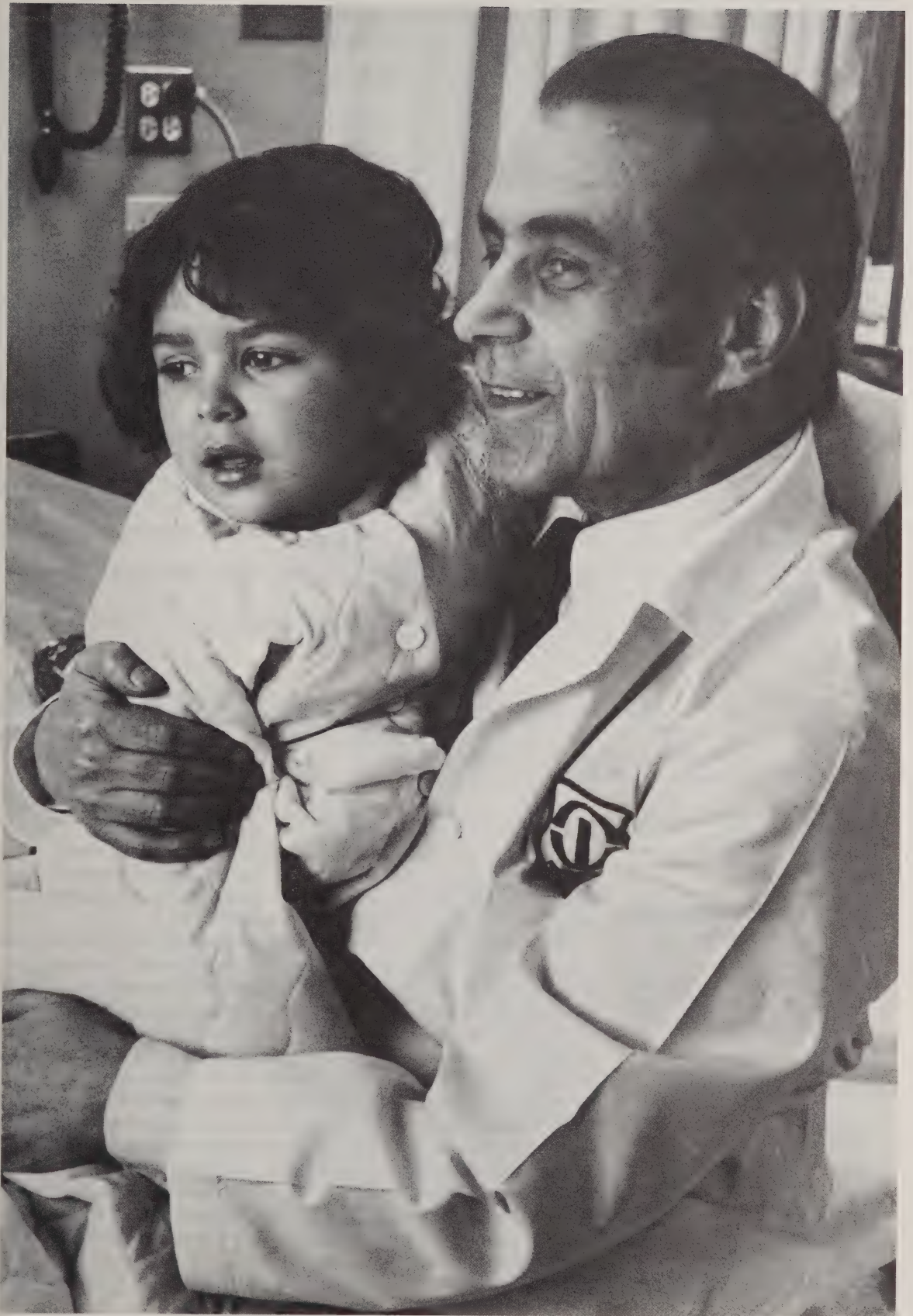
The research facilities of the department include biochemistry laboratories, histology laboratories for hard tissue histology, tissue culture laboratories, and a laboratory for bioengineering studies. Two major programs are conducted in these facilities. A bioengineering program is conducted in conjunction with the Department of Materials Engineering at the University of Illinois, Chicago Circle Campus. Basic studies on total joint replacement, the mechanics of human locomotion, and the mechanics of the spine constitute the core of this program. The biochemistry program is geared toward the study of cartilage metabolism and ground substance. Resident participation in research is encouraged. An elective rotation is available at the second year level.

There is a seminar program in basic sciences, a regular review of the histopathology of the musculoskeletal system, an anatomy dissection seminar, indications conference, and weekly teaching-oriented seminars including grand rounds as well as research conferences. Pathology and clinical conferences are also conducted at Christ Hospital.

The residency program is organized around the principle of progressively increasing responsibility with adequate supervision. Inquiries concerning the program should be directed to the chairman of the department.

**Department of
Otolaryngology and
Bronchoesophagology**

Caldarelli, David D., M.D., Chairman
Aimi, Kenji, M.D., Associate Professor, RMC and Associate
Attending, PSLH
Andrews, Albert H., B.S., M.S., M.D., Professor, RMC and
Senior Attending, PSLH
Bailey, Larry L., B.A., M.D., Instructor, RMC and Adjunct
Attending, PSLH
Block, Leslie J., B.S., M.D., Instructor, RMC and Adjunct
Attending, PSLH



Buckingham, Richard A., M.D., Lecturer, RMC
 Bulger, Richard F., M.D., Instructor, RMC and Adjunct
 Attending, PSLH
 Caldarelli, David D., M.S., M.D., Professor, RMC and Senior
 Attending, PSLH
 Coombs, Arthur J., M.D., Emeritus, RMC and Emeritus, PSLH
 Friedberg, Stanton A., A.B., M.D., Professor, RMC and Senior
 Attending, PSLH
 Geroulis, Anthony J., B.S., M.D., Instructor, RMC and Adjunct
 Attending, PSLH
 Griffith, Thomas E., M.D., Lecturer, RMC
 Hanna, Wafik A., M.B.B.Ch., M.D., Instructor, RMC and
 Adjunct Attending, PSLH
 Holinger, Lauren D., B.S., M.D., Assistant Professor, RMC and
 Assistant Attending, PSLH
 Horwitz, Irwin D., M.D., Associate Professor, RMC and
 Associate Attending, PSLH
 Horwitz, Steven D., M.D., Instructor, RMC, Adjunct Attending,
 PSLH
 Hutchinson, James C., M.D., Assistant Professor, RMC and
 Assistant Attending, PSLH
 Ratko, Arthur L., M.D., Associate Professor, RMC and Associate
 Attending, PSLH
 Razim, Edward A., B.S., M.D., Associate Professor, RMC and
 Associate Attending, PSLH
 Wallner, Linden J., B.S., M.D., Emeritus, RMC and Emeritus,
 PSLH
 Tenta, Louis T., M.D., Associate Professor, RMC and Associate
 Attending, PSLH

The Department of Otolaryngology and Bronchoesophagology offers a four- or five-year post-M.D. training program approved by the American Board of Otolaryngology. The residency provides for three residents, one in each year of training.

The clinical aspects of resident training are based on the principles of progressive clinical responsibility, with appropriate supervision in both surgical and outpatient responsibility. The senior resident assumes full responsibility for preoperative, operative, and postoperative care of the majority of hospital admissions commensurate with ability and under the direct supervision of the full-time attending staff.

There is a separate clinical and surgical rotation for the first-year trainee at one of the network hospitals, in which the resident is afforded full clinical and surgical responsibility under the close guidance of the network hospital otolaryngology program director.

Hospital admissions to this service average approximately 900 patients annually, with an average daily census of 25, encompassing a great variety of otolaryngic conditions. An outpatient otolaryngology practice held each weekday averages approximately 4,500 patients per year, with the clinical teaching supervised daily by the full-time attending staff. There currently is an average of more than 1,400 surgical procedures, including microscopic otology head and neck oncology, craniofacial anomaly, maxillofacial trauma, facial reconstructive, and endoscopic procedures, which provide extensive surgical experience in the various disciplines of contemporary otolaryngology.

Departmental conference activities include weekly seminars in otology, surgical pathology, otolaryngic radiology, head and neck oncology, otolaryngic pathophysiology, audiology, and electronystagmography. In addition, there is a formal course in head and neck surgical anatomy and temporal bone microsurgical dissections held weekly under the supervision of the attending staff.

Resident exposure to basic laboratory or clinical research is provided and currently involves assessment of chronic middle ear disease, airway problems in association with craniofacial anomalies, and the cytologic aspects of head and neck tumors. They are also doing animal research which involves the use of surgical staplers in laryngeal surgery and the use of fibermetal mesh. The resident staff is encouraged to submit papers for presentation at local and national society meetings, and each resident is afforded the opportunity of attending a national meeting or postgraduate medical education course each year under the department's sponsorship.

The department is a full-time participant in the National Cancer Institute's Comprehensive Network Demonstration Project for Head and Neck Cancer, in cooperation with Northwestern University and the University of Illinois.

An extensive relationship with the Center for Craniofacial Anomalies at the University of Illinois Abraham Lincoln School of Medicine provides an opportunity for multidisciplinary management of patients with a wide variety of craniofacial malformations. Network relationships involving the Department of Otolaryngology and Bronchoesophagology include residency rotations and teaching activities at West Suburban Hospital and Mount Sinai Hospital Medical Center. There is also a joint conference between the directors of otolaryngology at Mount Sinai Hospital and Presbyterian-St. Luke's Hospital.

Section of Dental and Oral Surgery

Kelleher, Leon R., D.D.S., Acting Director

Aduss, Howard, D.D.S., Professor, RMC and Senior Attending, PSLH (also Plastic and Reconstructive Surgery)

Akers, Paul T., D.D.S., Instructor, RMC, Adjunct Attending, PSLH

Alder, Gary F., D.D.S., Instructor, RMC and Adjunct Attending, PSLH

Bonick, James F., D.D.S., Assistant Professor, RMC and Assistant Attending, PSLH

Dittmer, Cedric, D.D.S., Emeritus, RMC and Emeritus, PSLH

Feimer, Peter P., D.D.S., Instructor, RMC and Adjunct Attending, PSLH

Gold, Henry O., D.D.S., Assistant Professor, RMC and Assistant Attending, PSLH (also Plastic and Reconstructive Surgery)

Holmes, William H., D.D.S., Emeritus, RMC and Emeritus, PSLH

Kelleher, Leon R., B.S., D.D.S., Assistant Professor, RMC and Assistant Attending, PSLH

Lee, Trusten P., D.D.S., Instructor, RMC, Adjunct Attending, PSLH

Martinez, Charles R., D.D.S., Assistant Professor, RMC and Assistant Attending, PSLH

Reed, Douglas F., D.D.S., Instructor, RMC and Adjunct Attending, PSLH

Shearon, Kenneth, D.D.S., Emeritus, RMC and Consultant, PSLH

Weiss, Marvin, D.D.S., Associate Professor, RMC and Associate Attending, PSLH

The Section of Dental and Oral Surgery includes four general dental residencies, all approved by the Council on Dental Education of the American Dental Association, which provide training in all aspects of dental practice within a hospital-based group practice setting. The training program is somewhat flexible, according to the trainee's individual interests. There is a concentrated three-month program in anesthesiology, pain control, and intravenous sedation. Constant emphasis is placed on the medical aspects of dental practice and on opportunities to learn the techniques of treating the dental problems of the handicapped, the aged, and the chronically ill. Each resident has experience in all aspects of oral surgery that might be encountered by a well-trained general practitioner.

Residents interested in community dentistry are given opportunities to participate in hospital-oriented outpatient programs and to treat bedbound patients away from the hospital environment.

The ultimate objectives of the program are to help the future general practitioner to function effectively in a total health care environment, with the emphasis on the dental and medical team. Many of the advantages of related hospital departments are available to the resident during training.

The dental staff includes representatives from dental specialty areas and dental hygiene.

Section of Communicative Disorders

Wolfe, Virginia I., Ph.D., Director

Bacon, Mary, B.S., M.A., Instructor, RMC

Harsch, Gail G., B.A., M.A., Instructor, RMC

Klodd, David A., Ph.D., Assistant Professor, RMC and Assistant Scientist, PSLH

Meyer, Dianne L., B.S., M.A., Assistant Professor, RMC and Assistant Scientist, PSLH

Ostreicher, Harvey, Ph.D., Assistant Professor, RMC and Assistant Scientist, PSLH

Ratusnick, David, Ph.D., Assistant Professor, RMC and Assistant Scientist, PSLH

Schewitz, Sheila, M.S., Instructor, RMC

Wolfe, Virginia I., Ph.D., Associate Professor, RMC and Associate Scientist, PSLH

The Section of Communicative Disorders functions as an integral part of the Department of Otolaryngology. Approximately 3,500 patients are seen each year for audiological testing; speech, language, and voice evaluations; and therapy. Teaching activities include seminars on topics related to basic and specialized aspects of speech pathology and audiology, such as tympanometry, electronystagmography, and spectrography, as well as aural and vocal rehabilitation. Because of the multidisciplinary nature of most communicative disorders, staff members are available for informal consultation on problems related to aphasia, stuttering, developmental language problems, etc. In addition to the education and clinical interaction with house staff, supervised practica are provided to graduate speech and hearing students from Northern Illinois University.

**Department of Plastic and
Reconstructive Surgery**

Curtin, John W., B.S., M.D., Chairman

Aducci, Howard, B.S., M.S., D.D.S., Professor, RMC and Senior
Attending, PSLH (also Dental and Oral Surgery)

Badri, A. Allen, M.D., Assistant Professor, RMC, CMH

Bradley, Craig, B.A., M.D., Assistant Professor, RMC and
Assistant Attending, PSLH

Brueck, Robert J., A.B., M.D., Instructor, RMC and Adjunct
Attending, PSLH

Curtin, John W., B.S., M.D., Professor, RMC and Senior
Attending, PSLH

Felix, E. Robert, A.B., M.D., Assistant Professor, RMC, WSH

Gold, Henry O., D.D.S., Assistant Professor, RMC and Assistant
Attending, PSLH (also Dental and Oral Surgery)

Greeley, Paul W., A.B., M.D., Emeritus Professor, RMC and
Emeritus, PSLH

Hugill, John V., M.D., Assistant Professor, RMC and Assistant
Attending, PSLH

Kurth, Milton E., B.S., M.D., Assistant Professor, RMC, CH

Lopez, Enrique, M.D., Assistant Professor, RMC, WSH

McNally, Randall E., B.S., M.D., Associate Professor, RMC and
Associate Attending, PSLH

Madda, John C., B.S., D.D.S., M.D., Instructor, RMC and
Adjunct Attending, PSLH

Monroe, Clarence W., B.S., M.D., Emeritus Professor, RMC and
Emeritus, PSLH

Ransdell, Allen, B.A., M.D., Assistant Professor, RMC, CMH

Schenck, Robert R., B.A., M.D., Assistant Professor, RMC and
Assistant Attending, PSLH (also Orthopedic Surgery)

The two-year graded training program in general plastic and reconstructive surgery is fully accredited by the Tripartite Conference Committee on Graduate Training sponsored by the American Medical Association, the American College of Surgeons, and the American Board of Plastic Surgery. To be considered for appointment, the applicant must have completed a minimum of three years of acceptable training in general surgery in order to comply with the requirements of the American Board of Plastic Surgery. Each year, a resident is selected to start training on July 1.

At present, an average of more than 1,200 plastic surgery patients are operated on annually at the Medical Center. Plastic surgery patients, embracing a wide variety of ages and types, may be private or from the Mile Square Health Center. Bed privileges and special operative times are offered the residents, but all of the patients in the hospital are available for teaching purposes.

The residents will be trained in overall preoperative surgical diagnosis and care, surgical treatment, and postoperative care of patients amenable to treatment by plastic surgery. There is more than adequate experience in the various methods of excisional and reparative surgery of the scalp, face, orbits, nose, oral cavity, neck, trunk, and extremities, as well as experience in management of neoplasms of the head and neck, cosmetic surgery, facial trauma, surgery of the hand, burns, and congenital abnormalities of the extremities and genitalia. Cooperation with other disciplines (orthopedics, general surgery, genitourinary, gynecology, bronchoesophagology, neurosurgery) allows exceptional experience in reconstruction of the esophagus, larynx, trachea, vagina, and



abdomen, and the repair of extensive encephalocele, myelomeningocele, and severe craniofacial deformities.

There is no routine rotation of plastic surgery residents to the network hospitals at this time; however, future plastic surgical residents (those who at present are on the general surgical service) will rotate to network hospitals for experience in trauma, burns, and hand surgery. Plastic surgeons in the network hospitals are encouraged to attend and participate in the weekly plastic surgical grand rounds at the Medical Center.

Residents are given ample opportunity to perform major procedures under the supervision of the attending staff. Increasing ability brings increased responsibility. To help the resident acquire skill and judgment in all phases of work, emphasis is placed on personal instruction at the bedside, in the clinic, in the operating room, and in the pathology and anatomy laboratories. Active participation in research is mandatory. The program stresses participation in weekly grand rounds, tumor conferences, surgical research projects, hand seminars, and journal reviews. The resident also spends time each week in private offices of the attending staff.

There is a separate hand clinic where acute and extensive reconstructive hand surgery cases are seen and operated upon. A large caseload of cleft lip, cleft palate, and severe craniofacial anomalies are operated upon by the plastic surgical staff and residents at Presbyterian-St. Luke's Hospital, and there is a close relationship with the Center for Craniofacial Anomalies at the University of Illinois School of Medicine, where more than 1,600 cases are seen each year.

Increased emphasis within the department is being given to microvascular surgery, both in the operating room and in the research laboratory.

Both junior and senior residents are afforded the opportunity to attend major surgical meetings during the year. They are encouraged to present papers on their own or in conjunction with the attending staff. A resident will be given an appointment as instructor in the department for the entire training program.

Department of Urology

McKiel, Charles F., Jr., M.D., Chairman

Baumgartner, George C., M.D., Assistant Professor, RMC and Assistant Attending, PSLH

Berger, Israel, M.D., Associate, Complementary Faculty, RMC and Adjunct Attending, PSLH

Callahan, Daniel H., B.S., M.D., Associate Professor, RMC and Senior Attending, PSLH

Cottrell, Thomas L., B.S., M.D., Visiting Assistant Professor, RMC and Consultant, PSLH

Ekbil, Shahid S., M.B.B.S., Assistant Professor, RMC and Assistant Attending, PSLH

Flanagan, Malachi J., M.D., Professor, RMC and Senior Attending, PSLH

Graf, Edwin C., B.S., M.D., Professor, RMC and Senior Attending, PSLH

Guinan, Patrick D., B.S., M.D., Visiting Assistant Professor, RMC and Assistant Attending, PSLH

Heinemann, Theodore P., B.S., M.D., Instructor, RMC and Adjunct Attending, PSLH

Malvar, Thomas C., M.D., Associate, Complementary Faculty, RMC and Adjunct Attending, PSLH

McKiel, Charles F., Jr., A.B., M.D., Professor, RMC and Senior Attending, PSLH
Merricks, James W., B.A., B.S., M.D., Emeritus, RMC and Emeritus, PSLH
Papierniak, Frank B., B.A., M.D., Associate Professor, RMC and Senior Attending, PSLH
Sadoughi, Nader, M.D., Associate Professor, RMC
Valenta, James C., M.D., Associate Professor, RMC and Senior Attending, PSLH

The Department of Urology offers a five-year residency program in cooperation with Presbyterian-St. Luke's Hospital, Cook County Hospital, and Children's Memorial Hospital.

The first two years are the equivalent of the internship and the first year of general surgery, and are devoted to nephrology, oncology, radiology, infectious diseases, general surgery, renal transplantation, or other specially requested programs that are approved by the residency chairman. The resident is under the direction of the department through which he or she is rotating. This allows the resident to have a firm foundation when he or she begins the clinical training in the third year of residency.

During the third year, the first spent in urology, the resident rotates six months at Presbyterian-St. Luke's Hospital and six months at Cook County Hospital. The resident is instructed in the performance of cystoscopy and the various special diagnostic techniques that are the backbone of the specialty, and gains wide experience in urologic surgery, usually as first or second assistant. The third-year resident has wide and primary responsibilities in patient care but is encouraged to conduct some research in association with a member of the staff in the urology research laboratory. Such research may be continued in future years.

The fourth-year resident is in charge of the private inpatient service at Presbyterian-St. Luke's Hospital for a six-month period, and then rotates to Cook County Hospital for a six-month period where he or she has appropriate responsibility for a ward. During the fourth year, the resident performs major urologic surgery under close supervision, and begins his or her transurethral experience at Cook County Hospital.

The rotation in pediatric urology is available at the Children's Memorial Hospital and at the Cook County Pediatric Hospital. These three months are generally available in the fourth residency year.

The fifth-year or senior resident assumes complete responsibility for urologic care for a six-month period at Presbyterian-St. Luke's Hospital and a six-month period at Cook County Hospital. The senior resident is also in charge of all conferences and delegates responsibility for education, patient care, and research as seen fit. Although the attending urologists are always available for counsel and assistance, the senior resident is encouraged to pursue a vigorous and self-reliant course of patient care and teaching.

All residents are required to attend the two-hour weekly teaching conference held at Rush Medical College. Individual conferences are held at every institution, and the resident is required to participate in and attend those conferences in the institution through which he or she is rotating.

The Journal Club meets twice a month. At one session, articles of interest in the current *Journal of Urology* are reviewed and

discussed. At other sessions, one assigned topic is discussed in detail and three or four particularly stimulating articles are discussed at some length. A member of the attending staff acts as moderator.

All residents are required to participate in the Chicago Urologic Society meetings. The society meets regularly during the winter months. Residents on the urology service are also expected to attend weekly surgical grand rounds. Out-of-town speakers are regularly invited to give special rounds. These may deal with new research, new surgical or diagnostic techniques, or new concepts in treatment.

All residency inquiries should be directed to the chairman, Department of Urology, Rush Medical College.

Department of Diagnostic Radiology

Buenger, Richard E., M.D., Chairman

Adler, Yolanda, T., M.D., Associate Professor, RMC and Senior Attending, PSLH

Alcorn, Franklin S., B.A., M.D., Professor, RMC and Senior Attending, PSLH

Bogdondoff, Maurice L., B.S., M.D., Professor, RMC and Senior Attending, PSLH (also Internal Medicine)

Buenger, Richard E., B.S., B.M., M.D., Professor, RMC and Senior Attending, PSLH

Charters, John R., B.S., M.D., Assistant Professor, RMC and Associate Attending, PSLH

Chilcote, Wayne S., Jr., A.B., M.D., Assistant Professor, RMC and Associate Attending, PSLH

Chung-Bin, Anthony, B.S., M.Sc., Associate Professor, RMC and Senior Scientist, PSLH (also Therapeutic Radiology)

Clark, John W., M.D., Professor, RMC and Senior Attending, PSLH

Fordham, Ernest W., B.S., M.D., Professor, RMC and Senior Attending, PSLH (also Nuclear Medicine)

Gardiner, Richard, A.B., M.D., Associate Professor, RMC and Senior Attending, PSLH

Gardner, H. Rex, B.A., M.D., Assistant Professor, RMC and Associate Attending, PSLH (also Pediatrics)

Grainer, Lorne S., M.D., Assistant Professor, RMC and Associate Attending, PSLH

Hill, B. Jay, M.D., Visiting Professor, RMC and Consultant, PSLH

Huckman, Michael S., B.A., M.D., Associate Professor, RMC and Senior Attending, PSLH (also Neurological Sciences)

Matthew, Guy R., B.A., M.D., Associate Professor, RMC and Senior Attending, PSLH (also Internal Medicine)

Patel, Suresh K., M.B.B.S., Associate Professor, RMC and Senior Attending, PSLH

Petasnick, Jerry P., B.A., M.S., M.D., Associate Professor, RMC and Senior Attending, PSLH

Ramsey, Ruth G., B.S., M.D., Assistant Professor, RMC and Assistant Attending, PSLH

Turner, David A., B.A., M.D., Assistant Professor, RMC and Associate Attending, PSLH (also Nuclear Medicine)

The Department of Diagnostic Radiology provides consultation for well over 130,000 patient examinations each year. The department, which encompasses a space of 27,500 square feet, is located on the main floor of the hospital and is divided, operationally

and professionally, into eight sections. There is a full-time staff of 16 diagnostic radiologists, with a full-time director of each section. The other radiologists are assigned to individual sections, or rotate through several sections. All of the routine radiographic work is displayed daily within each subspecialty section for interpretation, consultation, and teaching. Special display areas are also located in other areas of the Medical Center.

Modern equipment is provided for all the standard radiographic examinations, and for special procedures such as magnification radiography and mammography. Fluoroscopy of the gastrointestinal tract is remotely controlled, amplified, and televised. There are seven laminographic devices.

Three rooms contain biplane serial filming of the highest technical capabilities for angiography, bronchography, myelography, cholangiography, and percutaneous biopsy.

Two precision, multimodular tomographic rooms are reserved for tomography of the temporal bone and other special areas of the body requiring special accuracy. A special section with three machines is devoted to computed tomography of the brain and body.

Fluoroscopic equipment is available for surgical procedures. Coronary arteriography is routinely performed by the Section of Cardiorespiratory Diseases, Department of Medicine.

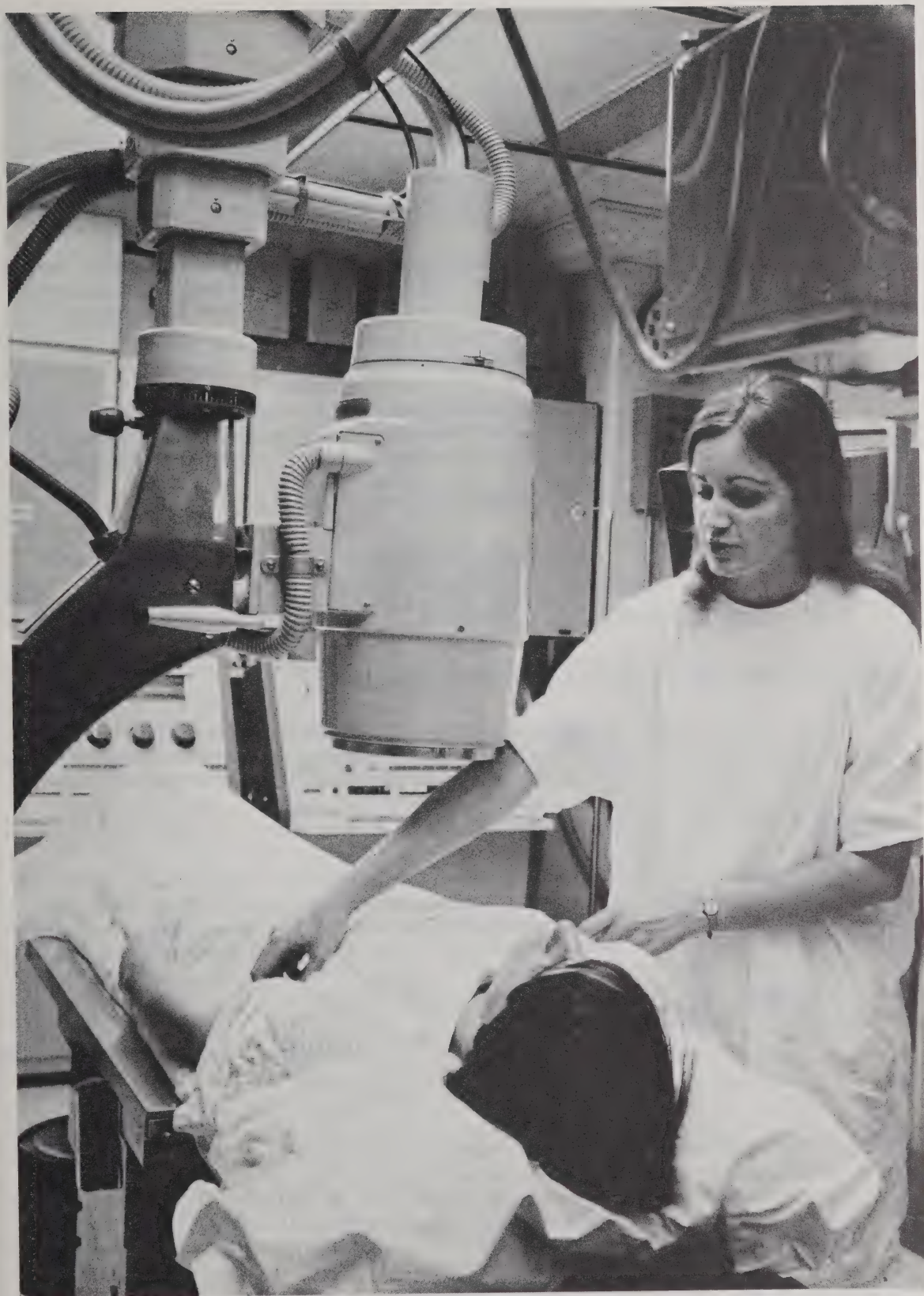
This department has been approved by the American Medical Association for residency training in straight diagnostic radiology. There are 20 residents in training, matching four residents annually through the NRMP. Beginning with the first year of residency training, the resident is responsible for the interpretation of all radiography and performance of every special procedure in the department. Every film interpretation, however, is individually checked by an attending staff member of the appropriate section, and every special procedure is supervised throughout its duration by a specialty radiologist. Various degrees of responsibility are delegated during the training program.

First-year residents rotate through general radiology, gastrointestinal radiology, thoracic radiology, and urologic radiology. During the second and third years, the residents rotate through each of the major subspecialties, as well as pediatric radiology and neuroradiology. Three months are spent in the Department of Nuclear Medicine to fulfill the requirements of the American Board of Radiology. Courses in physics and radiation physics are offered. Third and fourth-year residents are also given special training in ultrasound and computed tomography.

There are daily conferences within each section. Each week radiology grand rounds are held. The department also provides radiologic consultation at various hospital-wide conferences: medical grand rounds, surgical grand rounds, pediatric grand rounds, neurology grand rounds, tumor conference, and lymphoma conference.

All of the diagnostic radiologists are urged to attend the scientific meetings of the Chicago Radiological Society, held six times a year. Time is made available for all of the residents to attend refresher courses at the annual convention of the Radiological Society of North America when it is held in Chicago.

Each section maintains its own collection of teaching material. The Fay H. Squire Memorial Radiological Library is located within the department.



Section of General Radiology

Petasnick, Jerry P., M.D., Director

This section performs all examinations unspecified under other sections, all emergency examinations, and the following special examinations: arthrography, sialography, mammography, lymphangiography, peripheral arteriography, and abdominal arteriography (other than genitourinary).

Section of Ultrasound

Chilcote, Wayne S., JR., M.D., Director

This section performs examinations involving sectional imaging of the soft tissues of the body, including cardiovascular, abdominal, and obstetrical examinations by ultrasound echo techniques.

Section of Computed Tomography

Clark, John W., M.D., Director

This section has clinical and research responsibilities for assigning both brain and body scanning devices and computer facilities to those sections offering consultation in computed tomography.

Section of Thoracic Radiology

Bogdonoff, Maurice L., M.D., Director

Routine chest radiography and fluoroscopy, bronchography, tomography, lung biopsy, angiocardiology, pulmonary arteriography, and thoracic aortography are the responsibilities of this section.

Section of Gastrointestinal Radiology

Gardiner, Richard, M.D., Director

Plain and contrast-enhanced radiographic and fluoroscopic studies of the abdomen and gastrointestinal tract, the gall bladder and biliary system, and the pancreas are performed in this section.

Section of Urologic Radiology

Patel, Suresh K., M.B.B.S., Director

This section is responsible for excretory urography, retrograde pyelography, arteriography and venography of the kidneys and adrenals, renal cyst puncture, voiding cystography (other than pediatric patients), salpingography, and pneumogynecography.

Section of Pediatric Radiology

Gardner, H. Rex, M.D., Director

All routine and special radiographic procedures on children, with the exception of neuroradiologic and arteriographic studies, are performed in this section.

Section of Neuroradiology

Huckman, Michael S., M.D., Director

This section is responsible for the following examinations: plain skull radiography, myelography, all head and neck arteriography and venography, ventriculography, and pneumoencephalography.

**Department of Therapeutic
Radiology**

Hendrickson, Frank R., M.D., Chairman

Chung-Bin, Anthony, B.S., M.Sc., Associate Professor, RMC and Senior Scientist, PSLH (also Diagnostic Radiology)

Hendrickson, Frank R., B.A., M.D., Professor, RMC and Senior Attending, PSLH

Kartha, Ponnunni K. I., B.Sc., M.Sc., Associate Professor, RMC and Associate Scientist, PSLH

Lee, Myung-Sook, M.D., Assistant Professor, RMC and Associate Attending, PSLH

Liu, Shin, Ph. D., Assistant Professor, RMC and Assistant Scientist, PSLH

Mengeot, Michel, Ph. D., Assistant Professor, RMC and Assistant Scientist PSLH

Murthy, Anantha, M. D., Assistant Professor, RMC and Assistant Attending, PSLH

Phillips, Richard L., M. D., Visiting Associate Professor, RMC

Reddy, Salitha, M. D., Assistant Professor, RMC and Assistant Attending, PSLH

Routh, Anupam, M.B.B.S., Assistant Professor, RMC and Assistant Attending, PSLH

Sarin, Pramila, M. D., Assistant Professor, RMC

Saxena, Virendra S., M.B.B.S., Associate Professor, RMC and Consultant, PSLH

Silverstein, Edward, Ph. D., Assistant Professor, RMC and Associate Scientist, PSLH

Stefano, Stefani, M. D., Professor, RMC

Wachtor, Thomas E., M.B., M.S., Assistant Professor, RMC and Assistant Scientist, PSLH

Hanson, Wayne R., Ph. D., Assistant Professor, RMC and Assistant Scientist, PSLH (also Dermatology)

The department offers a three-year program leading to qualification for the American Board of Radiology examination in therapeutic radiology, with a fourth year of special training in therapeutic radiology for those desiring such augmentation of previous experience. Board eligibility requirements are three years of post-M. D. training in therapeutic radiology and successful passing of a written examination. If successful on the written examination, the oral examination is taken one year later.

The radiotherapy section consists of an integrated area of 6,500 square feet devoted to clinical problems and 1,000 square feet of research space. Within this area are two supervoltage teletherapy machines, one superficial treatment machine, and an image-amplified simulator to permit accurate localization of treatment volumes. The radium laboratory contains 750 mg of radium or isotope equivalent for clinical use. An electronics shop provides maintenance, design, and production of special equipment.

Rush-Presbyterian-St. Luke's Medical Center registers more than 1,600 new cancer patients a year, and more than half receive some form of radiotherapy. There are more than 15,000 treatment visits and 3,000 follow-up visits a year. All patients are seen initially by the radiotherapy house staff, with preliminary evaluation and treatment planning before finalization of the treatment program with the attending staff. Patients are admitted directly to the radiation therapy service, and operating room priority is assigned for radiotherapeutic operating procedures. Community hospitals within



the Medical Center network permit rotation and exposure to the problems of community hospital practice.

There is an active clinical and basic research program in the areas of preoperative radiotherapy, combined chemotherapy and radiotherapy, and optimum fractionation and protraction. The National Institutes of Health, the American Cancer Society, and local institutional funds provide financial support. Active participation in these programs by residents and fellows is strongly encouraged. Opportunities for independent investigation are available.

Medical students from Rush and other schools who rotate through the department offer stimulus as well as a teaching challenge. In addition, interns from surgery have an elective one-month rotation in therapeutic radiology. The School of Radiation Therapy Technology offers still another teaching opportunity for motivated staff. The department presently rotates fellows and senior residents through one of the network hospitals for a three-month rotation, and fellows or residents from other network hospitals may do a rotation in the department. The residents have rotations in nuclear medicine, medical oncology, and medical physics, and have rotations on the services within the department as part of their training. House staff recruitment is basically to the Rush department with elective rotations to major radiotherapy departments within the network. The department is involved in joint conferences of lymphoma, breast, head and neck, and medical oncology, and sponsors a weekly radiation therapy conference with guest speakers from inside and outside the institution.

The training program is basically related to patient problems. Assignment of all new patients is made for evaluation and treatment planning. Plans for all new patients and any problem patients are reviewed daily with the entire attending and resident staff. Daily treatment and follow-up is performed in conjunction with the attending staff. Adequate opportunity is present to ensure development of proficiency in all necessary external treatment and implant modalities. Approximately one-fourth of the training period is devoted to radium and isotope training.

Department of Anesthesiology

Sadove, Max S., M.D., Chairman

Acuna, Antonio, M.D., Assistant Professor, RMC and Assistant Attending, PSLH

Badrinath, Shyamala, M.D., Assistant Professor, RMC and Assistant Attending, PSLH

Boggs, Roy E., M.D., Associate Professor, RMC and Associate Attending, PSLH

Djordjevic, Ljubomir, Ph.D., Assistant Professor, RMC

Ecanow, Bernard, Ph.D., Visiting Professor, RMC (Complemental Faculty)

Ford, Erica, M.D., Assistant Professor, RMC and Assistant Attending, PSLH

Gottschalk, William, M.D., Professor, RMC and Senior Attending PSLH (also Obstetrics and Gynecology)

Garla, Gupta, M.D., Assistant Professor, RMC and Assistant Attending, PSLH

Han, Kyung Min, M.D., Instructor, RMC and Assistant Attending, PSLH

Heckel, Eileen, M.D., Associate Professor, RMC and Senior Attending, PSLH



Heller, Floyd, M. D., Associate Professor, RMC and Associate Attending, PSLH
 Keane, Donal, M. D., Assistant Professor, RMC and Associate Attending, PSLH
 Kolina, John, M. D., Assistant Professor, RMC (Complemental Faculty)
 Lai, Joseph C., M. D., Assistant Professor, RMC and Assistant Attending, PSLH
 Lyons, Mary, M. D., Emeritus, RMC and Emeritus, PSLH
 Mörch, E. Trier, M. D., Ph. D., Emeritus, RMC and Emeritus, PSLH
 Murphy, Peter, M. D., Associate Professor, RMC and Associate Attending, PSLH
 Redlin, Thomas A., M. D., Assistant Professor, RMC and Assistant Attending, PSLH
 Sadove, Max S., M. D., Professor, RMC and Senior Attending, PSLH
 Sillins, Astrida, M. D., Assistant Professor, RMC and Assistant Attending, PSLH
 Stetson, John B., M. D., Professor, RMC and Senior Attending, PSLH
 Thomason, Richard, M. D., Assistant Professor, RMC and Associate Attending, PSLH

Anesthesiology is a relatively new and rapidly growing specialty. In the operating room, the anesthesiologist guards the patient's vital functions and provides relief of pain while affording the relaxation necessary for the surgeon to perform the operation. Because the anesthesiologist guards the patient's vital functions, he is often referred to as the patient's "internist in the operating room." At the Medical Center, the anesthesiologist also has the opportunity to investigate chronic pain mechanisms and treats chronic pain in the Rush Pain Center. The anesthesiologist is active in the intensive care unit, especially in the prevention (or treatment) of ventilatory, circulatory, and renal problems. Inhalation therapy for non-seriously ill patients is also the anesthesiologist's domain.

The anesthesiologist is both a clinical pharmacologist and clinical physiologist. As a consequence, his research projects cover a broad spectrum. Research projects currently in progress in the department include sophisticated noninvasive techniques for monitoring circulatory function and investigation of pain mechanisms in animal models as well as in the patient, and relief of chronic pain in patients referred to the Rush Pain Center. In the field of clinical physiology, there is investigation of fluid balance (and prevention of fluid accumulation) in patients receiving hypotensive anesthesia. There are active pharmacodynamic studies of old and new anesthetics, analgesics, and sedative drugs.

The residency program is four years long, and follows completion of medical school. Residents are also eligible for a three-year program following completion of an approved internship. The residents must pass the written part of the American Board of Anesthesiologists, Inc. examination to receive credit for their residency. A limited number of transfer residents are accepted for the fourth-year program after completion of three years of approved training following graduation from medical school.

With the exception of the physicians and scientists noted to be on the complimentary staff or emeritus faculty, all the physicians and

scientists listed as faculty are full-time members of the department. The large staff allows close and continuous academic and clinical supervision of the resident staff.

Residents who enter the program following completion of medical school spend nine months of their first year on rotation through hospital departments such as the medical service, the surgical service, obstetrics, pediatrics, and the intensive care units. The next two years are spent in one-on-one assignment to a specific staff anesthesiologist. The assignment to a specific anesthesiologist preceptor is on a rotation basis. Each of the staff anesthesiologists is a subspecialist, and the resident becomes a part of the patient care team on that service for each rotation. Since Rush-Presbyterian-St. Luke's Medical Center is a tertiary care institution, the surgery subspecialties are well developed and treat referred patients with complex surgical and medical diseases. The team approach to the treatment of the many surgical patients referred to the Medical Center provides the residents with an opportunity to learn all facets of treatment of the patients, not just anesthesia techniques.

Each resident is treated as an individual and is advanced in his functions and responsibilities as he or she demonstrates growing skills and capabilities. The final year of training is spent on various services, doing projects such as cardiac anesthesia, hypotensive anesthesia, or anesthetic care of the high-risk obstetrical patient, pain problems, etc. There are eight hours of didactic programs each week. These exercises are supplemented by distinguished visiting professors who present additional lectures and clinical exercises. The residents also attend the meetings of the Chicago Society of Anesthesiology, the Illinois Society of Anesthesiology Case Study Commission, the Midwest Anesthesia Resident Conference, special anesthesia training meetings held in the area, and related activities of the Medical Center and other local teaching hospitals.

Department of Obstetrics and Gynecology

**Wilbanks, George D., M.D., The John M. Simpson Chairman of
Obstetrics and Gynecology**

Acharya, Vasant, M.B.B.S., Assistant Professor, RMC and
Assistant Attending, PSLH

Archie, Julian T., B.A., M.D., M.P.H., Assistant Professor, RMC
and Associate Attending, PSLH

Axelrod, Edward H., B.S., M.D., Associate Professor, RMC and
Associate, CH

Baum, Hugo C., B.S., M.D., Associate Professor, RMC and
Senior Attending, PSLH

Beebe, Robert A., B.S., M.D., Associate Professor, RMC and
Senior Attending, PSLH

Boysen, Harry, B.S., M.D., Chairman Emeritus.

Burks, James L., M.D., Associate Professor, RMC and Associate
Attending, PSLH

Cava, Jose M., B.S., M.D., Associate Professor, RMC and
Associate, CH

Ellis, Jeffrey W., A.B., M.D., Instructor, RMC and Adjunct
Attending, PSLH

Evenhouse, Henry John, A.B., M.D., Associate Professor, RMC
and Associate, CH

Farmans, Michael S., A.B., M.D., Assistant Professor, RMC and
Assistant, CH

Finola, George C., B.A., M.D., Associate Professor, RMC and
Senior Attending, PSLH

Fox, William P., B.S., M.D., Assistant Professor, RMC and Assistant, WSH
 Geittman, William F., B.A., M.D., Associate Professor, RMC and Emeritus, PSLH
 Gottschalk, William, B.A., M.D., Professor, RMC and Senior Attending, PSLH (also Anesthesiology)
 Ichniowski, Richard, M.D., Associate Professor, RMC and Associate, CH
 Jagodzinski, Benjamin A., B.S., M.D., Associate Professor, RMC and Associate Attending, PSLH
 Lawson, Leonard, B.S., M.D., Instructor, RMC and Adjunct Attending, PSLH
 Lee, Alice W., M.D., Instructor, RMC and Adjunct Attending, PSLH
 Lee, Robert J., B.S., M.D., Assistant Professor, RMC and Assistant, CH
 Long, John S., B.S., M.D., Assistant Professor, RMC and Senior Attending, PSLH
 McCartney, Charles P., B.S., M.D., Professor, RMC and Professor, CH
 Maroulis, George V., B.S., M.D., Assistant Professor, RMC and Assistant Attending, PSLH
 Merrick, Frank W., B.A., M.D., Assistant Professor, RMC and Associate Attending, PSLH
 Nama, Prabhavathi, M.D., Associate Professor, RMC and Assistant Attending, PSLH
 Northrop, Gretajo, B.S., Ph.D., M.D., Assistant Professor, RMC and Assistant Attending, PSLH (also Internal Medicine)
 Olson, Robert P., A.B., M.S., M.D., Assistant Professor, RMC and Associate Attending, PSLH
 Orban, Denes, M.D., Associate Professor, RMC and Senior Attending, PSLH
 Russell, James L., B.S., M.D., Instructor, RMC and Assistant Attending, PSLH
 Salamone, Frank, B.S., M.D., Associate Professor, RMC and Associate, CH
 Sampson, Alan B., B.S., M.D., Assistant Professor, RMC and Assistant, CMH
 Schewitz, Lionel J., M.B.C.H., Assistant Professor, RMC and Assistant Attending, PSLH
 Sheikh, Ghulam N., M.D., Assistant Professor, RMC
 Sherline, Donald, B.S., M.D., Professor, RMC and Senior Attending, PSLH
 Skiles, James H., Jr., B.S., M.D., Assistant Professor, RMC and Assistant, WSH
 Smith, Florence, B.S., M.D., Associate Professor, RMC and Associate, CH
 Stepto, Robert, B.S., Ph.D., M.D., Professor, RMC
 Stringer, Nelson, B.S., M.D., Instructor, RMC and Adjunct Attending, PSLH
 Szymanska, Zofia, M.B.B.S., Instructor, RMC and Adjunct Attending, PSLH
 Truchly, Vasil, M.D., Assistant Professor, RMC and Senior Attending, PSLH
 Voyevodka, Ihor, B.A., M.S., M.D., Assistant Professor, RMC and Assistant Attending, PSLH
 Wilbanks, George D., A.B., M.D., Professor, RMC and Senior Attending, PSLH

Wilhelm, Emanuel C., B.S., M.D., Associate Professor, RMC and Associate, CH
Wolff, John R., M.S., M.D., Professor, Emeritus
Zelinger, Bernard B., B.S., M.D., Assistant Professor, RMC and Assistant, CH

The Department of Obstetrics and Gynecology offers a four-year post-medical school training program approved by the American Board of Obstetrics and Gynecology. The residency emphasizes comprehensive experience in all phases of obstetrics and gynecology, as well as experience in internal medicine, neonatology, and obstetric and gynecologic pathology to prepare the physician for the practice of general obstetrics and gynecology, for further subspecialty training, or for a career in academic obstetrics and gynecology. This is an integrated residency program that combines the departments of obstetrics and gynecology of Presbyterian-St. Luke's and Christ hospitals to provide a total, well-balanced experience in all phases of obstetrics and gynecology. Elective time may be spent in clinical rotations or basic research programs in the Department of Obstetrics and Gynecology or in related specialties, depending on the interests of the individual resident. There are seven positions at each level of a four-year program for a total of 28 residents. No internship is required in order to begin the program, but those with prior internship may begin at the second year if positions are available.

All members of the attending staff are certified by the American Board of Obstetrics and Gynecology. They are actively engaged in the teaching programs for house staff and medical students. Residents at all levels are involved in student teaching activities with Rush Medical College.

Approximately 4,800 obstetric patients deliver in the hospitals each year. More than 2,500 surgical procedures are performed by the two hospitals each year. Since this department has been noted for pioneering in vaginal surgery, special emphasis is placed on this area.

The department has staff representing the major obstetric and gynecologic subspecialties: perinatal biology, endocrinology, oncology, community obstetrics, family planning, obstetric anesthesia, sexual dysfunction, and psychosomatic obstetrics and gynecology. Each subspecialty involves interdisciplinary associations to broaden patient care, teaching, and research objectives (e.g., the endocrinology service involves obstetrics and gynecology, medical and pediatric endocrinologists), and there is maximum interdepartment exchange and cooperation (e.g., between perinatal biology, endocrinology, and oncology, who use the same rhesus monkey colony as experimental models). Faculty with these diverse backgrounds, yet with a common interest in clinical obstetrics and gynecology, offers the resident depth in basic training and opportunity for specialized consultation and learning. Post-residency fellowships are offered in perinatal biology, and others are being developed in each of the subspecialties in preparation for the subspecialty board requirements of the American Board of Obstetrics and Gynecology.

Applications for this residency program should be made to Frank W. Merrick, M.D., director of the integrated residency program.

Section of Ambulatory Reproductive Health Care

Burks, James L., M.D., Director

The Section of Ambulatory Reproductive Health Care offers a wide range of experience in the ambulatory care of the obstetrical and/or gynecological patient. These experiences include routine health maintenance, prenatal care, cancer detection, venereal disease detection and treatment, family planning services, detection and treatment of sexual dysfunction problems, and treatment of appropriate gynecologic disease.

In the ambulatory setting, the resident has the opportunity to follow the obstetrical patient both prenatally and during the post partum period, and, for those gynecological patients requiring surgery, to follow the patient both pre-operatively and postoperatively.

A heavy emphasis is placed on preventive medicine and patient education.

A resident may elect, with consent of the director, to engage in programs to develop particular skills in this area.

Section of Psychosomatic Obstetrics and Gynecology

Recognizing that the obstetrician-gynecologist is in reality the primary care provider of health care to his or her patients, the Section of Psychosomatic Obstetrics and Gynecology is organized to stimulate and encourage expertise in this area. A productive liaison exists with the Department of Psychiatry. Combined appointments have produced an interdisciplinary team of clinicians and a research group. Consultation concerning patients with psychosomatic problems and/or unusual emotional difficulties is available to the staff at all times.

Medical students attend lectures in Phase II during the course in human reproduction. During the Phase III clerkships, weekly seminars include patient interviews and discussion of the psychosocial aspects of illness, especially relating to the problems of depression, the reaction to gynecologic surgery, cancer, and sterilization. Patients seen in the Adolescent Family Center and the Family Unit provide an insight into the varied aspects of health care and to the moral and ethical questions on a practical basis. Elective courses are offered to those who wish to pursue psychosomatic obstetrics and gynecology in more depth.

Residents have opportunity to acquaint themselves with the effect of the emotions on reproductive and gynecologic physiology, as well as the importance of social and economic factors in physical and mental health. The case method appears to serve as the optimum in teaching and experience.

The entire department is devoted to the principle of good patient care and to developing new systems for delivering this care to the community. Psychosomatic obstetrics and gynecology adheres to this by stimulating trainees to develop their own special interests and by providing opportunities for enhancing their understanding and expertise.

Section of Maternal-Fetal Medicine

Sherline, Donald M., M.D., Director

The activities of both inpatient and outpatient services are geared to providing the highest quality of total care possible. Whenever appropriate, patients who are believed to be at increased risk of an unsuccessful obstetric outcome are seen in specialty clinics, where comprehensive perinatal services are available. Liberal use is made

of specialized inpatient services for patients who cannot be managed adequately on an outpatient basis. Multiple weekly conferences and seminars directed by attending staff provide ample opportunity for the resident staff and medical students to explore the clinical problems encountered, as well as to review the basic concepts of perinatal biology.

The resident also has the opportunity for in-depth studies of special problems of obstetrics in the Perinatal Biology Laboratory (formerly a division of the Department of Embryology of the Carnegie Institution of Washington). This laboratory is dedicated to the investigation of maternal and fetal physiologic and pathologic processes and utilizes the rhesus monkey as the experimental model.

Section of Obstetric Anesthesia

Gottschalk, William, M.D., Director
Mecklai, Rahim, M.D., Fellow

The Section of Obstetric Anesthesia is a part of both the Department of Obstetrics and Gynecology and the Department of Anesthesiology. Its primary clinical duties are the management of pain during labor and delivery and assistance in the acute care of obstetric patients. Its educational purpose is to train obstetric and anesthesia residents, as well as student nurse anesthetists and medical students, not only in the clinical aspects of the management of pain but also in the maternal, fetal, and neonatal physiologic alterations resulting from analgesia and anesthesia.

While basic obstetrics and fetal-maternal medicine is stressed during the training of student nurse anesthetists and anesthesia residents, airway maintenance, life-support measures, and regional anesthesia are primarily taught during the training of obstetrics residents.

Academic and research interest are centered around national and international dissemination of information relating to obstetric anesthesia and its impact on fetal-maternal care, as well as research on physiologic alterations secondary to anesthesia in obstetrics and minimizing or utilizing these effects.

Section of Gynecologic Oncology

Wilbanks, George, M.D., Director

Gynecologic oncology is an integral part of the combined oncology services, involving radiation therapy, medical oncology, surgical oncology, and pathology. There are weekly tumor conferences and tumor clinics, along with day-to-day management by the resident staff of patients with gynecologic malignancies. Over 150 patients with various types of gynecologic malignancies are treated each year.

All residents are involved in basic cancer patient care and may elect to pursue a clinical or basic project during their training period.

Several clinical research projects are in progress within the division and in cooperation with the nationwide Gynecologic Oncology Group, involving surgery, radiation therapy, or chemotherapy, or various combinations of two or more types of therapy. Evaluation of early cervical neoplastic lesions is made in a special clinic utilizing cytology, colposcopy, and colpomicroscopy. More basic studies are being conducted concerning in vitro carcinogenesis and cell differentiation.



The emphasis of this subspecialty is to train the resident and student to be adept at managing clinical problems in the diagnosis, therapy, and prevention of gynecologic malignancies. Intelligent management of clinical problems comes from a thorough understanding of the pathogenesis of the disease. The staff's interest is clinical, and basic research encourages a scientific approach to solving clinical problems.

Section of Gynecologic Endocrinology and Infertility

Maroulis, George B., M.D., Director

This section of the Department of Obstetrics and Gynecology encompasses the scope of the new subdivision of the American College of Obstetricians and Gynecologists.

Laboratories that are able to assay protein and steroid hormone levels in excretory, secretory or tissue amounts are available. In conjunction with the medical division endocrinology section of the Department of Internal Medicine, large numbers of assays are available. Clinical and research application of current methods of analysis will be used, including saturation analysis (competitive protein-binding), radioimmunoassay, gas-liquid chromatography, and chemical analysis.

Clinics and seminars devoted to gynecologic endocrine problems and infertility are held.

Special diagnostic and operative procedures, such as hysteroscopies, laparoscopies, tubal ligations, and hysterosalpingography are performed by the resident physicians on rotation through the section. The practical value and intellectual stimulation that evolves from these efforts will be available for medical students, residents, fellows, and staff at each level of development. The learning stimulus and mutually beneficial arrangement of this total program should aid the continued progress of both individual and institution.

Specific programs for residents and fellows will be arranged under the guidance of the faculty of this section.

Department of Pathology

Weinstein, Ronald, M.D., The Harriet Blair Borland Chairman

Alroy, Joseph, D. V. M., Assistant Professor, RMC and Assistant Scientist, PSLH

Ayer, John P., A.B., M.S., M. D., Professor, RMC and Senior Attending, PSLH

Bailey, Orville T., M. D., Distinguished Professor, RMC

Bharati, Saroja, M. D., Associate Professor, RMC (Hektoen Institute)

Banner, Barbara, M. D., Assistant Professor, RMC and Associate Attending PSLH

Chang Lo, Mary, M. D., Assistant Professor, RMC, MSHMC

Clasen, Raymond A., B.S., M. D., Associate Professor, RMC and Senior Attending, PSLH

Coon, John S., Ph. D., M. D., Assistant Professor, RMC and Assistant Attending, PSLH

Dainauskas, John R., M. D., Associate Professor, RMC and Associate Attending, PSLH

Davidsohn, Israel, M. D., Professor Emeritus, RMC, MSHMC

Eisenberg, Brenda, Ph. D., Assistant Professor, RMC and Assistant Scientist, PSLH

Gibbons, William P., M. D., Instructor, RMC, GSH

Goldin, Milton, Ph. D., Associate Professor, RMC, MSHMC

Gould, Victor, M. D., Professor, RMC and Senior Attending, PSLH
 Hass, George M., B.S., M. D., The Otho S.A. Sprague Professor Emeritus, PSLH
 Hawkins, Earl, M. D., Assistant Professor, RMC and Assistant Attending, PSLH
 Heredia, Raul, B.S., M. D., Assistant Professor, RMC MSHMC
 Lee, Chang Ling, M. D., Professor, RMC, MSHMC
 Lev, Maurice, M. D., Distinguished Professor, RMC (Hektoen Institute)
 Mason, John W., M. D., Assistant Professor, RMC, CH
 McQuay, Russell M., Ph. D., Associate Professor, RMC, MSHMC
 Miller, Alexander W., M. D., Associate Professor, RMC, and Associate Attending, PSLH
 Patel, Nargis, M. D., Instructor, RMC and Assistant Pathologist, PSLH
 Pauli, Bendicht, D.V.M., Assistant Professor, RMC and Assistant Scientist, PSLH/
 Pellettieri, Edmund V., M. D., Assistant Professor, RMC and Associate Attending, PSLH
 Pusch, Allen L., M. D., Associate Professor, RMC, CH
 Rubenstone, Albert I., M. D., Professor, RMC, MSHMC
 Schajowicz, Fritz, M. D., Visiting Professor, RMC.
 Schwartz, Melvin M., M. D., Assistant Professor, RMC and Associate Attending, PSLH
 Thachenkary, Leelamma, B.S., M.B.B.S., Associate, RMC, MSHMC
 Thomas, William Jr., M. D., Associate Professor, RMC, MSHMC
 Weinstein, Ronald S., M. D., Professor, RMC and Senior Attending, PSLH

The principle underlying the program in pathology is to offer simultaneous progressive training in service functions, research, and teaching. It is believed that continuous divided attention to several subjects during a long period is preferable to concentrated attention to each subject in sequence during short periods.

The first-year post-M. D. trainee program in pathology accepts two trainees who spend ten months on autopsies and surgical pathology. During this period, the trainee may select a research subject and begin investigative work under supervision of the attending staff or do a clinical elective. During the entire 12-month period, the trainee attends the seminars and conferences designed to correlate the course of human disease with laboratory findings. Current cases are analyzed in weekly tumor clinics, pathology staff conferences, hematology, autopsy pathology, surgical pathology, cytopathology, liver, renal, and clinical pathology conferences.

The major part of the second and third years is devoted to both clinical and anatomic pathology. All descriptions and diagnoses of surgical specimens, after consultation with the pathology attending staff, are the responsibility of residents, who are also assigned responsibility for assisting first-year residents with gross postmortem procedures and gross surgical pathology.

With attending staff consultation, the resident is responsible for preparation and interpretation of frozen sections for rapid diagnosis during surgical procedures. The resident continues to attend all seminars, and research previously undertaken is continued. If serious interest in research becomes apparent, technical assistance

is available. The resident becomes more active in the teaching of pathology to medical students in the hospital. The resident spends four months in the Department of Microbiology learning diagnostic procedures in virology, bacteriology, mycology, and parasitology. Six months are spent in the Department of Biochemistry learning principles, instrumentation, and procedures related to clinical biochemistry. The resident continues attendance at all seminars.

The residents spend four months in the Section of Hematology, during which time they perform and interpret bone marrow aspirates and biopsies. They also attend hematology rounds. About two weeks are spent in the general hematology laboratory. One to two months are spent in Blood Bank and also in the coagulation section.

Assignment of three months in the Department of Immunology emphasizes clinical immunologic tests and the relations of immunology to clinical problems.

Two fellowship positions are available for persons who have specific research interests or who wish to add to their experience in surgical pathology and cytopathology by concern with daily diagnostic problems, supplemented by rotation on postmortem service in selected cases, attendance at all seminars (conducting those of special interest), and research and teaching, as in the fourth-year program. These activities allow the resident at least one-half of his or her time for research or further specialty training in accordance with individual choice. Excellent opportunities are available in cytopathology, electron microscopy, neuropathology, and various aspects of clinical pathology.

Student and other types of fellowships are available for those who do not follow the full schedule of formal resident training. Graduate students in one of the basic medical sciences may, when qualified, participate in this program.

The program is approved for training in anatomic and clinical pathology by the American Board of Pathology. Approval is given for the appointment and training of ten postdoctoral residents. On completion of training, all residents are qualified for examinations by the American Board of Pathology. Two fellowships in surgical pathology are available for senior residents who have completed the requirements for AP or AP-CP certification.

Organization of the Medical Center

Rush University

James A. Campbell, M.D.
President
Donald R. Oder
Senior Vice President and
Treasurer
William F. Hejna, M.D.
Senior Vice President
John F. Trufant, Ed.D.
Assistant Vice President, Academic
Support Services
John S. Graettinger, M.D.
University Marshal
Joe B. Swihart, M.S.Ed.
Registrar
Robert Leitze, M.S.
Director, Student Financial Aid

Rush Medical College

Robert S. Blacklow, M.D.
Dean, Rush Medical College
L. Penfield Faber, M.D.
Associate Dean, Surgical Sciences
and Services
George C. Flanagan, M.D.
Associate Dean, Curriculum and
Evaluation
John S. Graettinger, M.D.
Associate Dean, Graduate Medical
Education

College of Nursing

Luther Christman, Ph.D.
Dean, College of Nursing
Sue Hegyvary, Ph.D.
Associate Dean, Master's Program
JoAnn Jamann, Ed.D.
Associate Dean, Doctoral Program
Linda Simko, M.S.N.
Acting Director, Baccalaureate
Program
Diana P. Thomas, M.B.A.
Assistant Administrator
Ruth E. Johnsen, A.M.
Director of Admissions
Barbara S. Schultz, M.Ed.
Director, High School/College
Relations
Georgia Padonu, Dr. P.H.
Chairperson, Department of
Community Health Nursing
Joan LeSage, Ph.D.
Chairperson, Department of
Gerontological Nursing
Ellen Elpern, M.S.N.
Acting Chairperson, Department of
Medical Nursing

College of Health Sciences

David I. Cheifetz, Ph.D.
Dean, College of Health Sciences and
Graduate School
Cecilia Brocken, Ph.D.
Associate Dean, Biological and
Behavioral Sciences and Services
Willie Bradley, M.P.H.
Assistant Administrator, Assistant to
the Dean
Mary J. Glessner, M.A.
Assistant Administrator, Assistant to
the Dean

Kathe Brown, M.S.
Director, Student Affairs
Ron Musich, B.S.
Director, Financial Affairs
Peggy Lusk, M.A.
Counselor
Robert Lipgar, Ph.D.
Psychologist
Harold A. Paul, M.D.
Associate Dean, Continuing
Education
Beverly B. Huckman, B.A.
Equal Opportunity Coordinator for
Academic Affairs

Leo M. Henikoff, M.D.
Associate Dean, Medical Sciences
and Services
James Hayashi, Ph.D.
Assistant Dean, Instruction
Keith R. Kretchmer, M.H.A.
Assistant to the Dean

Claudia Anderson, Ph.D.
Chairperson, Department of
Obstetrical and Gynecological
Nursing
Jean M. Kaufman, Ph.D.
Chairperson, Department of
Pediatric Nursing
Ann Marie Brooks, D.N.Sc.
Chairperson, Department of
Psychiatric Nursing
Nellie Abbott, Ph.D.
Chairperson, Department of Surgical
and Operating Room Nursing
Gary Forsyth, Ph.D.
Nursing Coordinator,
Interinstitutional Affairs
Judith Jezek, M.A.
Director, Quality Assurance
Jean Sorrells-Jones, M.S.N.
Director, Continuing Education

Marva O. Anderson
Coordinator, Graduate School
Admissions
Ruth E. Johnson, A.M.
Director of Admissions
Barbara S. Schultz, M.Ed.
Director, High School/College
Relations



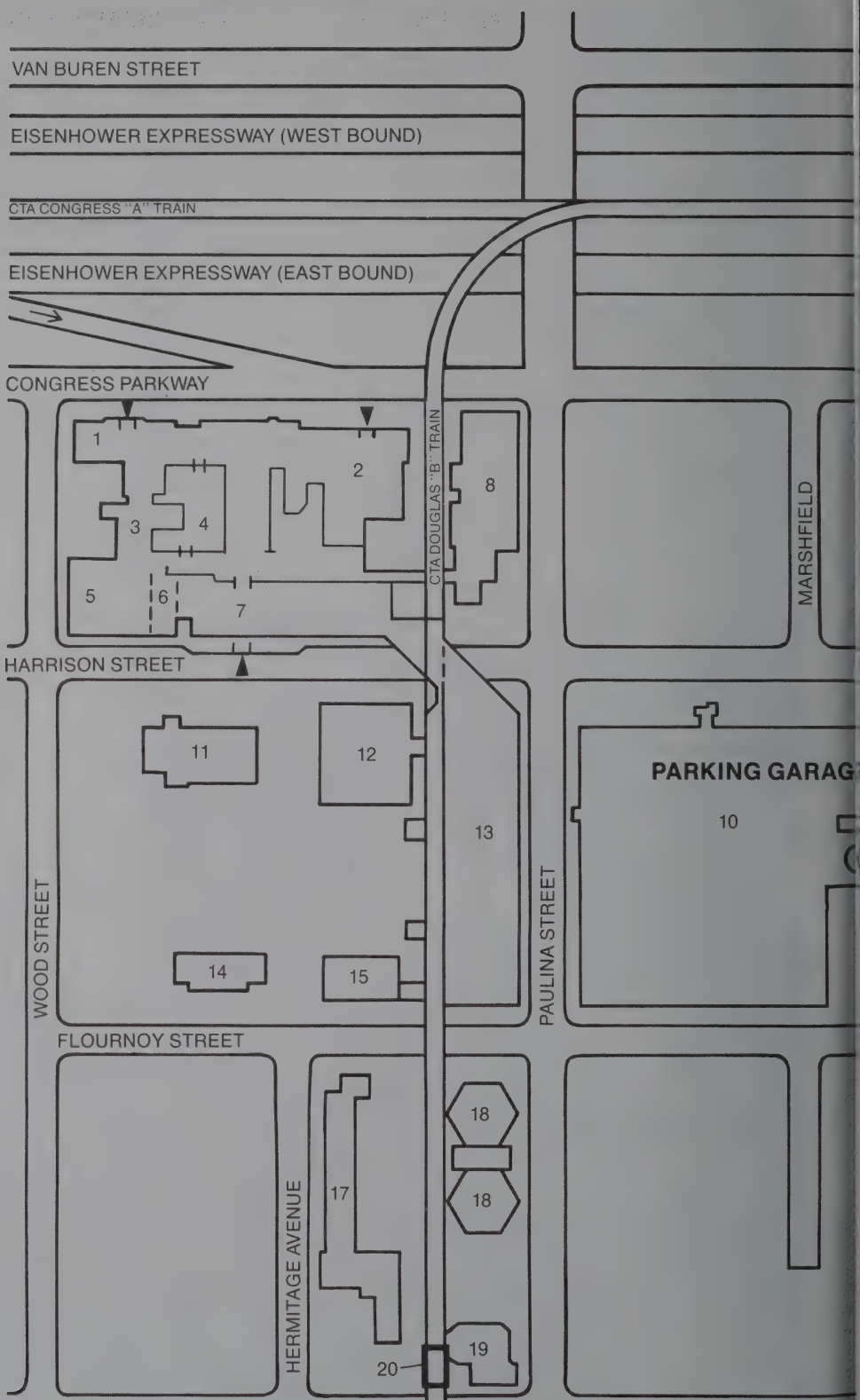
Medical Staff**Officers 1978-79**

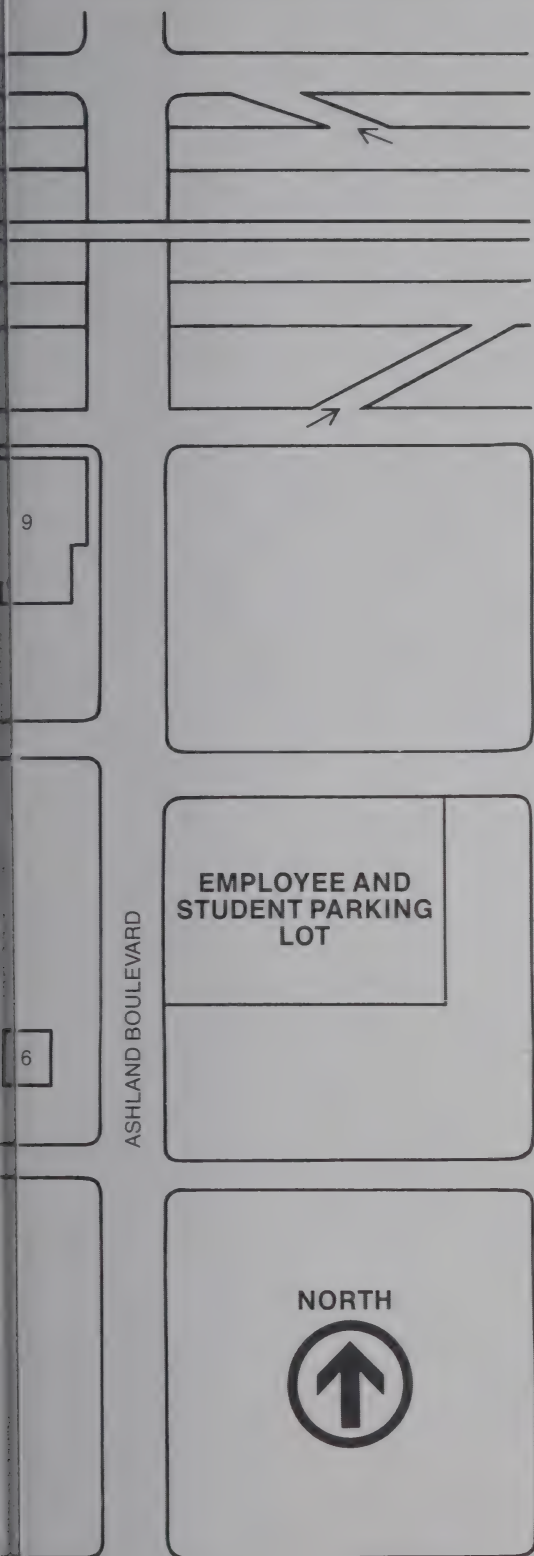
Milton Weinberg, Jr., M.D.
President
Joseph Muenster, M.D.
President-Elect
Ronald DeWald, M.D.
Secretary
Andrew Thomson, M.D.
Treasurer

**The House Staff
Association**

The House Staff Association is a membership organization. Officers for 1978-79 are:

Benjamin B. LeCompte III, M.D.
(Neurosurgery) President
Larry J. Goodman, M.D.
(Internal Medicine) Vice President
Martin G. Siglin, M.D.
(Internal Medicine) Treasurer
Howard L. Corwin, M.D.
(Internal Medicine) Secretary
William R. Kehoe, M.D.
(Internal Medicine) Social Chairman





**Rush-Presbyterian-St. Luke's
Medical Center
Rush University Campus**

1. Jones Pavilion
2. East Pavilion
3. Murdock
4. Cafeteria
5. Rawson
6. Senn
7. Jelke Southcenter
8. Coyne Building
9. Columbia Bank Note Building
(Print Shop and Storage)
10. Parking Garage
11. Schweppe-Sprague Building
12. Professional Building
13. Academic Facility
14. Kidston Apartments
15. McCormick Apartments
16. Laurance Armour Day School
17. Marshall Field IV Mental Health Center
18. Johnston R. Bowman Health
Center for the Elderly
19. Central Refrigeration Plant
20. Polk Street Station, CTA
21. Warehouse

Notes

The Medical Center: A Summary

Rush-Presbyterian-St. Luke's Medical Center is the central initiating component of a comprehensive, cooperative health delivery system, serving some 1.5 million people through its own resources and in affiliation with nine community hospitals in northern Illinois.

It is Rush University, and a cooperative educational system which comprises Rush Medical College, the College of Nursing, the College of Health Sciences, and 14 liberal arts colleges and universities in six states from Colorado to Tennessee.

It is Presbyterian-St. Luke's Hospital, a major referral center providing primary care to its immediate community, and secondary and tertiary care to patients from across the country.

It is a center for basic and clinical research in both traditional disciplines and in multidisciplinary centers, coordinating the attack on cancer, cardiovascular disease, and multiple sclerosis.

It is a pioneer in community medicine through its relationship with Mile Square Health Center, the creation of its own Health Maintenance Organization, ANCHOR, and its expanding services in the city and beyond.

In all, Rush-Presbyterian-St. Luke's is an organization of over 7,000 people—medical and scientific staff, faculty students, and employees—committed to providing the best care with the highest professional standards, and with compassionate attention to the needs of every patient.

Approvals

Joint Commission on
Accreditation of Hospitals

Liaison Committee for
Graduate Medical Education

Liaison Committee for
Medical Education

Department of Registration and
Education, State of Illinois

North Central Association of
Colleges and Schools

National League for Nursing

License

Department of Public Health,
State of Illinois

Memberships

American Hospital Association

Illinois Hospital Association

Chicago Hospital Council

Blue Cross Blue Shield Health
Care Service Corporation

Association of American Medical
Colleges

